File No. PWD 20 GUK 69
PWS/PA/4443 Vol. I.

MYSORE GOVERNMENT SECRETARIAT

Notes/Correspondence/Collection

Department P.W.D. Section General Irrigation Secti

Subject:— Almatti Dam - Upper Krishna Project.
Estimates - Tenders

Earlier References:—

Later References:—

Indexed

31/5/69 Irrigation
31/5/70

(Classification ~~A~~/B/~~C~~)

Notes Pages.....90.....
Correspondence Pages.....43
For/Not for Section note Book
To be destroyed after.....1987

Under Secretary to Government

May be preserved
20/4/84
(LBP)
PWD(Irrign)

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PWS/PA/4(4) Vol. I.

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Government.

DOCKET SHEET

Department: PWD

File No. PWD 20-4(K)6

Section: General Irrigation

Volume: One

SUBJECT

Tenders for the work of Constructing Almatti Dam (all the three reaches) across Krishna River.

Number and date 1	To whom sent 2	Instructions 3
Secy. PWD. No 8841 Date 8.12	9 Secy	E.M.F 1504/70 Secy PWD. 18-3-70
	R. & I. SECTION F.D. No. ... Date 10/12 Section W.T.	D. S. PWD (Irrgn). M. F 1183 dt. 1/6
5531 9/12	DSC(M) 10/12	
I.F.S. (W & S) Date. 10/12 8892	R. & I. SECTION F.D. No. ... Date ... Section W.T.	
15/12		
371/Gnr/69 16.12.69	R. & I. SECTION F.D. No. ... Date 19/8 Section W.T.	
SC 2 PWS 31.1.70	20/8	

[PTO

M. G. S.	Subject:	File No.

In the M.I.P.C. Board held on 14-4-1969, the matter relating to the calling for tenders for the construction of Almatti Dam, so that the foundation works of this Dam could be taken up and executed simultaneously along with the Narayanapur Dam was discussed. The Board generally, agreed with the proposal (Vide Last Para of the Proceedings at Page 4).

vide flag 'A'

In Govt. Order No.PWD 11 MUK 63 dated 22-5-1968, Govt. approved the modified proposals of Upper-Krishna Project to irrigate 19.5 lakh acres at a cost of Rs.143 crores. The First Stage ~~of~~ comprises the following:-

(1) The Almatti Reservoir up to R.L.1620 in the river bed and R.L. 1680 on the flanks.

(2) Upper Narayanpur Dam to be completed to ~~16~~ R.L. 1607.5 along with the Left Bank Canal and provide for 10.10 lakh acres. The total cost of First Stage being Rs.75 crores.

In pursuance of the above, the Chief Engineer forwarded the estimate relating to the construction of Narayanapur Dam and tenders for the same have also been invited and considered by the M.I.P.C. Board at its Meeting held on 14-4-1969.

Tenders have been submitted & are being considered CE 31/5

As regards the construction of Almatti Dam, no estimates have been received so far from the Chief Engineer, Irrigation (North). As decided in the M.I.P.C. Board Meeting, it is desirable that tenders in respect of Almatti Dam are also called for and ~~the~~ decision taken on this issue, so that works of Almatti Dam along with the work of the Narayanpur Dam may be taken up, The estimate in respect of Almatti Dam may also be sent to Govt. by the Chief Engineer immediately.

A draft letter addressed to the Chief Engineer, Irrigatio (North) with respect of this work, placed below as Sl.No.2 may please be perused and approved.

31/5/69

(M. Channappa)
D.S., P.W.D. (Irrigation)

Seen. P. WD

- 2 -

Flag A

Kindly see the decision of the M.I.P.C. Board taken in its meeting held on 14th April 1969 regarding taking up of theconstruction of Almatti Dam (page 4 of the proceedings The Chief Engineer has not so far initiated any action; we have not heard anything so far from him. The work on this dam should be taken up without any loss of time. This will strengthen our case before the tribunal as it would have created certain commitment/interest in the waters of the Krishna river. It is suggested that the Chief Engineer may be asked to call for tenders for the entire work of the dam immediately. It may however be in two parts. The first part should cover foundation of the dam

Subject: | File No. | M. G. S.

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upto R.L. 1620 in the river bed and upto R.L. 1680 in the flanks, and the second part should cover the remaining portion of the dam. After receipt of the tenders, a decision can be taken at Government level whether the work should be started on the entire dam or for a portion of the dam, pending approval of the entire project estimate.

I have mentioned in my note submitted to the Cabinet sometime earlier that the interest in the waters of a river is created by its use. It is therefore essential that such an interest should be created by undertaking the construction of the storage dam, so that we could along with other States put before the tribunal that we have also created such an interest in the waters of the Krishna river. If approved, the Chief Engineer would be requested to call for tenders without any loss of time.

I am approved action

Chandappa 3/6

CHANDAPPA PATEL,
Excise Dy. & Secy. Dept.

CMF 2743/69
2-6-69

Chief Minister) Kindly

V. Patil 1/6

(VEERENDRA PATIL)
Chief Minister.

NOTE 3

The draft as revised may issue.

Secy PWE

Chandappa 2/6

Issued on 2.6.69 to CE I P(N)

St No 4. Receipt - letter from the CE(I)(N)

NOTE 4

The report of the CE I.P(N) at St No 4 is submitted for kind perusal vide D.O. letter dated 2.6.69 at St No 2. Copies of 2 Tender Notifications issued may also be seen at St Nos 3 & 4.

2/6/69 Addl Secy

2/6

Addl. Secy., PWD
No. 2744 Date 2/6

M. G. S.	Subject:	File No.

NOTE 5

Secretary may please see CE's letter at Sl No: 4 with reference to his D.O. letter at Sl No: 2. The necessity for changing the levels for I^st stage is cannot be clearly understood from the letter. It is therefore proposed to request the CE. to put-up the matter before the Technical Sub. Committee for their advice.

Secy. PWD. No 5211 Dated 28/6

28/6/69
IFTEKHAR AHMED,
Addl. Secy., PW & E Deptt.

NOTE 6

Secy
I agree.

CE
1/7

Addl. Secy (T)

28/7/69

NOTE 7

Draft letter is put-up at Sl No 4/N.

2/7/69

Issued on 5.7.69.

Serial No 6. (Receipt) from CE (P&I) (NOT Pkg)

Subject:	File No.	M. G. S.

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NOTES

The letter of the CE IP (North) at SNo 6 may ~~kindly~~ please be perused.

29/7 Submitted & perused the letter of the CE(D)IV at Serial no. 6 w.r. to NOTES 5 and 6.

29/7 DS

Dear Sir

24/7/69

29/7

Addl. Secy., PWD
No. 3046 Date 24/7

NOTE 9

Secy may please see. The position taken by the CE. is correct. There is no first-stage now.

24/7/69
IFTEKHAR AHMED,
Addl. Secy., PW & E Depts

Secy PWD
No. 5823 Date 29/7

Secy

NOTE 10

Secy's DO. letter at Sl. No: 2 is quite clear. The CE. has been instructed to call tenders for the whole dam, but in two clear phases. There is no ambiguity in the wording also. In reply to his letter at Sl. No: 6, he may request him to comply with these instructions, even if it means modifying the tender notification. He should also be requested to answer our queries raised at Sl. No: 5.

31/7/69

DS/I

9/8/69

4/Sept

Note 11

Ref note 10 ante. Draft letter to CE is put up for approval.

~~CE~~
6/9/69

CE Please see note 10 and the letter at Sl No 2. Instructions have been given therein to invite tenders for the Bhandup Dam by splitting up the work into Two stages — work up to RL 1620 in the first stage and work up to RL 1680 in the second under the First stage and the balance work under the Second stage. Instructions are also issued therein to invite tenders for both the phases simultaneously.

Obviously the work above RL 1620 in the first stage and the work above RL 1680 in the second which is a part of the second stage can be taken up only when the work of the first stage is completed. And therefore the tenders for second stage cannot be invited along with the tenders for the first stage. This aspect was also discussed with the Exec. Engr. when CE(W) was also present. It was agreed that tenders for the entire work could be called for and in the tenders it could perhaps

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for stipulates that even if the cost is restricted during actual execution to a lower height, the Contractor cannot claim any compensation etc. I think the action taken by the CE now is in agreement with that.

For perusal

Secy. PWD. No 6187 Date 8/8

DS
Secy P. WD

3/8/69.

9/8/69

13/8

—12—

Reply from CE (NS) to letter dated 5.7.69 at Sl Nos may be awaited.

13/8/69

13/8

Sl No 8. Receipt - letter from CE(NS)

—13—

The letter from the CE(NS) at Sl No 8/P 1-4 Cf may kindly be perused. It is reported that as per the letter of above and the discussion with the CM, the tenders

are prepared for Ahmedi dam limiting the height of the dam to R.L 1620 in lower portion estimated to Cost Rs 7.14 Crores. The work has been devided into three reaches as mentioned at para 1 of the CE's letter. Seperate tenders were invited for all these three reaches under single Notice Inviting dated 5.7.69. The Contractors were asked to offer their possible rebate, if all the three works were entrusted to them. In all 9 Contractors have offered their rates. out of these 5 Contractors have quoted for all the three reaches, two for reaches I & III and one for reaches II & III and one for reach III alone. The CE Nasik has after evaluating the values of all tenders with conditions mentioned, M/S Shah Construction Co. Bombay works out lowest for all the three reaches considered individually and collectively. The evaluated value of their tenders of all the three reaches considered together works out to Rs 666.54 lakhs (6.66% below estimate). The tender amount as

per the quoted rates of the firm will be Rs 661.14 lakhs (7.4% below the estimate which will be taken as the tender this Comm.)

The CE therefore recommends to accord approval to the acceptance of the tenders of M/s Shah Construction Co, Bombay individually as well as Collectively for all the three reaches subject to their agreeing:-

i) to keep the offer valid beyond 24.12.69.

2) to withdraw all their conditions and in lieu thereof

3) to accept the additional Conditions as per annexure - P 5 of ft no 8.

Submitted for orders with the Concurrence of F.D.

6/12/64

Dy Secy

1. The Construction of Dhrnathi Dam upto RL 1620 in the river bed and upto RL 1680 in the flanks was taken approved as a part of Upper Krishna Project Stage One. Vide GO No PWD 117 UK 68 d/ 22-5-68. (P-7-8 of)

2. The Chief Engineer was requested in letter dated 2-6-69 at P 66 to invite tenders for the construction of Dhrnathi Dam. He has accordingly invited tenders for the Central masonry spillway and Power Dam portion upto RL 1620. For the remaining portion of the Dam on the left and right flanks he has invited tenders upto the final height. By final heights, it is presumed that the level meant is RL 1720, which is the ultimate level of Dhrnathi Dam.

3. According to the Chief Engineer the estimated cost of these works is Rs 714.07 lakhs.

Left Flank	—	254.4 lakhs
Central Masonry	—	419.7 "
Right Flank	—	39.97
		Rs 714.07 lakhs

4. According to the proposals of Upparakarinne Project – Dhoothi Dam approved by Govt, as explained in para 1 above, the cost of Dhoothi Dam included in the First Stage is Rs 16.30 crores. Detailed estimates for the Upparakarinne Project Stage One are not yet received from the Chief Engineer. To enable Govt. to approve the tenders for the construction of the Lower Dam (Nanjangud Dam), the estimates to the extent of Nanjangud Dam canals, for which tenders were invited and tenders were to be taken up; were obtained from the CE. and they were approved in GO No PWD 14 GUK 69 dt 18-9-69 (Pg W). Similar estimates in the case of Dhoothi Dam canals could also be necessary and they will have to be obtained from the CE, to enable the disposal of the tenders received.

5. As explained in para 2 above, the entire Dhoothi Dam has been split up into Three Reaches or sections and tenders have been invited for all the Three Reaches separately and the Contractors are Reported to have been worked

to intimate the Rebate if all the three sections were entrusted one agency only.

6 Altogether Nine Contractors have quoted for the works and of them only five have tendered for all the five Reaches. All of them are stated to have stipulated certain conditions. The detailed letter of the CE at p 26-28 of and paras 4-6 of that letter may be seen. The Chief Engineer has recommended the rejection of the request for the inclusion of provision for Arbitration and escalation of rates due to increase in cost of labour and materials. The CE. has however conceded that

a) the 2½% E.M.D may be obtained in the shape of Bank Guarantee Bonds etc.

b) the 5% PSD being restricted to 2½% only and ½% out of this being converted Bank Guarantee Bonds etc

c) a Cash advance of Rs 10 Lakhs interest free being given against Bank Guarantee Bond etc

d) Advance on machinery to the extent of Rs 15 lakhs, interest free based on the machinery brought to the site.

7. The estimated value of work put to tender in three reaches is of the order of Rs 700 lakhs — Security Deposit (7½%) for this amount also is of the order of Rs 52.5 lakhs. The Contractors may find it difficult for the locking up of funds to such an extent. In the case of the work Right Bank Masonry Dam at Hiddal let out to M/s Shanthisagar Contrs. Co. Govt. have already accepted the relaxation of the rule regarding Security Deposit and have limited the Security Deposit to Rs 2.5 lakhs. The amount over and above this limit being obtained in the shape of a Bank Guarantee. Vide Go DWD 52 MGP 69 dt 25-3-69. Therefore the present recommendations of the CE with regard to KTD — a PSD can be accepted.

8 The question of granting advance and advance on machinery. Can also be agreed to. But whether it should

be interest free is to be considered.

9. Considering the tenders separately for each section and also considering them together for all the sections and also taking into account the ~~~~ value of conditions accepted by CE, the tender of M/s Shah Construction Company is the lowest. The value of their tender at the tendered rates minus the deductions is Rs 661,13,405 and the value of their tender after adding to the above the cost of the conditions will be Rs 666,53,594. Both these figures are 7.41% and 6.66% less respectively than the estimated cost.

10. The lowest tender of M/s Shah Construction Co can therefore be accepted on their withdrawing the conditions stipulated by them and accepting the conditions now recommended by the CE. The CE will have also to be asked to furnish the estimates for these works for sanction.

Note-14

DS/ The letter of CE (I) North dated 2-12-69 placed as SL No 8 may please be perused by M/s

along with refer in Note 13A of the C/N. Cl 2 will be requested to intimate immediately if the Contractor whose tender is recommended is agreeable to the Condi-tions now set out by the department, and also will withdraw all other Conditions put forth by him.

A detailed estimate for the work is also necessary, without which according approval to the tenders may not be in Order.

On receipt of the above the matter may be placed before the Technical Advisory Committee of M.I.P.C. Board, and the M.I.P.C Board also for Consideration.

For perusal.

Supdg P.W.D) 8/12/69

Note 15.

Action as at 'A' above may be taken first after F.D. sees the file. If the Contractor agrees to the new conditions in writing, action as at 'B' above is to be taken. F.D. may kindly see on priority

IFTEKHAR AHMED,
Addl. Secy., PW & E Deptt.

F.S.

Shri Mani Narayan Swamy

9.12.69

M. G. S. | Subject: | File No.

NOTE- 16

The tenders relating to the construction of Almatti Reservoir were considered by the Technical Sub-Committee of the M.I.P.C. Board on 18-12-1969 (at 11-A.M.) and by the M.I.P.C. Board held on 18-12-1969 (at 4-30 P.M.) The Proceedings of the Meeting of the Technical Sub-Committee and the M.I.P.C. Board placed at Pages 28 and 33 of the case file may please be perused.

As per the decisions of the M.I.P.C.Board, a letter is proposed to be addressed to the Chief Engineer, Irrigation (South) to take further necessary action regarding negotiation A Draft of the letter addressed to the Chief Engineer, Irrigation (North), placed at Page 34 of the case file may please be perused and approved before issue.

In this connection, it may be re-collected that the matter of conducting negotiations only with the lowest tenderer was discussed in the M.I.P.C. Board. As per the Codal Rules, negotiations will have to be conducted with all the Tenderers. Conducting negotiations with only the lowest Tenderer could be the most desirable thing, as otherwise the sanctity of the tender will be lost if negotiations are conducted with all the Contractors, because, knowing the structure of the rates quoted by the several Contractors, it would become easy for the Contractors to manipulate their rates structure, and at the same time, it may lead to sometimes un-healthy competitions. In view of the above, it is desirable that unless there are very serious conditions having their financial implications it is desirable to conduct negotiations with the lowest tenderer with a view of further reducing the rates and also eliminating undesirable conditions if any. Even now this may kindly be considered before the Chief Engineer, Irrigation (North) is requested to conduct negotiations on this matter. Finance Dept. may see and agree for the proposal. If this is approved, the draft letter addressed to the Chief Engineer, will be suitably altered.

2/1/1970

(M. Channappa)
D.S., PWD (Irrgn).

Secretary, PWD:

2/1/70

Seen FD

Shri Rani Nargund

NOTE-17.

Discussed with Secy. PW & E. The

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letter may issue as in the draft already in the file

The suggestion made re. negotiating with only the lowest tenderer/s, will require a general policy decision PW+E may kindly propose this separately, if they so desire

2.1.1970

Secy. PW+E Dept.

Note 18. 2/1/70

2/1/1970

Issued on 3/1/70.

M: G. S.	Subject:	File No.

NOTE- 16

The ~~tenders~~ tenders relating to the construction of Almatti Reservoir were considered by the Technical Sub-Committee of the M.I.P.C. Board on 18-12-1969 (at 11-A.M.) and by the ~~Exx~~ M.I.P.C. Board held on 18-12-1969 (at 4-30 P.M.) The Proceedings of the Meeting of the Technical Sub-Committee and the M.I.P.C. Board placed at Pages 28 and 33 of the case file ~~may~~ respectively please be perused.

As per the decisions of the M.I.P.C.Board, a letter is proposed to be addressed to the Chief Engineer, Irrigation (South) to take further necessary action regarding negotiation A Draft of the letter addressed to the Chief Engineer, Irrigation (North), placed at Page 34 of the case file may please be perused and approved before issue.

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2/1/1970

(M. Channappa)
D.S., PWD (Irrgn).

Secretary, PWD:

2/1/70

Secy (F)

Shri Rami Nargund

Note-17.

Discussed with Secy. PW & E. The

M. G. S. | Subject: | File No.

NOTE-13.

The letter of the Chief Engineer, Irrigation (North), dated 23-1-1970 placed as Sl.No.11 at Page 44 of the case file may please be perused with reference to Govt. letter addressed to the Chief Engineer dated 3-1-1970 at Page 36 of the case file

The Chief Engineer has conducted negotiations with all the Contractors offering the following two conditions:-

(1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the validity to expire one year after the date of completion of work; and

(2) Further Security Deposit may be limited to 2½% to be deducted from the Running Account Bills out of which ½% may be converted into a Bank Guarantee or Security Bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

Out of the 9 Tenderers, 5 firms had originally tendered conditionally and 4 Contractors had ~~quoted~~ not quoted conditions. Those who had quoted conditions were asked to withdraw all of their conditions putforth in their tenders except some of their minor conditions which were not of any substantial nature (Vide Annexure 1 at Page 38) and they were requested to resubmit their re-quotations.-of percentage premium in lieu of withdrawing their conditions. The other 4 firms were also requested to submit their quotations of percentage rebate, in view of the two conditions offered by the Govt. in regard to the Earnest Money and Security Deposit. Except M/s Hindustan Construction Company, who have not agreed to extend the validity of the tender beyond 24-12-1969, all the other 8 Tenderers have given their re-quotations agreeing to keep their offer open.

As per the re-quotations now received, M/s Continental Construction Company have quoted a rebate of 1½% if all the 3 works are entrusted to them, but have insisted upon their original conditions, Viz., Demand for an advance of Rs.40 lakhs in cash and also 90 per cent of the cost of the machinery. The two advances together may come up to one crore of rupees.

M/s Shah Construction Company Limited, Bombay, have withdrawn all their conditions, except minor ones, They have demanded a premium of ½% on their originally quoted rates. Their net offer as requoted and as now evaluated for all the three reaches stands at 6.67 per cent below the estimate, and they are the accepted lowest, since M/s Continental Construction Company have not agreed to withdraw their conditions.

p. t. o.

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Even considering ~~the~~ workwise the offer of M/s Shah Construction Company, is the lowest in respect of 2nd and 3rd work. In respect of first work, their offer is slightly higher than the M/s Continental Construction Company.

Considering all the aspects, the offer of M/s Shah Construction Company stands at Rs.666,54,191 for all the 3 reaches, at 6.67 per cent below the estimate and may be agreed to with financial concurrence, subject to the two conditions, that the Dept. had stipulated regarding the E.M.D. and F.S.D.

6/2/70.

(M. Chahnappa)
D.S., PWD (Irrigation).

Secy P.W.D

F.D.

10/2/70

Note 20

1) Pl. find out, from the Cl., the implications of SL/A as B of ~~Cont~~ Shah Constn Co's letter dated 17.1.70 (page 37) (after issue of letter, & without awaiting for reply)

2) Thereafter, the lower C's proposals may be forwarded to FD for advice, meanwhile.

M/s Contental Co's tender, as far as its apparent value goes, is the lowest, being Rs 6, 61, 94, 838/- for all the three reaches put together, after accounting for the rebate

6, 61, 94, 838

Add to it 6% interest on probable cash advance (40 lakhs) & machinery advance (50 lakhs) or, Savings on Rs 90 lakhs, ——— for 3 to 4 years, say 4 years averaged for 2 years → 10, 80, 000

~~21, 60, 000~~

~~5 [illegible]~~

6, 72, 74, 838

~~6, 67, 34, 838~~

~~6, 65, 74, 838~~

A correct picture can be gauged only on perusal of tenders. Where are they?

DS!

B.F. ~~6,67,34,838~~ ~~6,83,54,838~~ 6,72,74,838

It is probable that, if the matter is discussed with them, M/s Continental may also agree to pay Rs 0.50/cu metre for such stone used, or could have offered even more. Taking Rs 0.50 as the basis for which they may agree, deduct ——— — 1,45,811

6,71,29,027

Net tender value of M/s Continental ~~6,82,09,027~~

Against this, the tender of M/s Shah Constn Co. amounts to ——— 6,66,54,191

Difference Rs 4,74,836

3. ~~Hence~~ Thus, in effect, the tender of M/s Shah Constn. Co. is the lowest for the 3 reaches put to tender. On the same method of working, it is also the lowest for each individual reach (See page 43; c/f.)

4. Apart from this, M/s Continental have not withdrawn their conditions, and this fact alone may render them liable for rejection

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But if they withdraw the conditions, their offer becomes worth considering when a decision will have to be taken on the basis of CEs statement at SL/c on his letter d 23/1/20 (page 43). What is the basis of this statement. CE refers to a previous report. Where is that?

14/4/20

DSI

Note - 21 -

Draft letter to the CE I P(N) is put up to affn.

18/2/20.

18/2/20

19/2

Issued on 19/2/20.

Sh No 13. Receipt. letter from the CE(N)

- 22 -

The report of the CE I.P (NS) Dharwar at Sh No 13 may kindly be perused by the Note 20 ante and the letter dated .19.2.20 issued to CE at Sh No 12. The CE has forwarded the entire original tender documents along with the letters of the

tenderers and also subsequent letters regarding the negotiated offers received in the 2nd week of Jan 1970. (All these are kept in the Section, will be submitted when required). The CE has also clarified the points raised in the letter at Sl No 12. Submitted for perusal and orders Wh to note 2ondly.

26/2/70. for orders whether the tenders may be placed before the Technical Sub-Committee and the Major Irigation Projects Control Board for Consideration and ensuing recommendation to Govt.

28/2/70. DS)

-23-

Note 21 of the case note and also the letter of the Chief Engineer dated 25-2-1970 placed at Sl.No.13 may please be perused. As suggested above, the matter may be placed before the Technical Sub Committee and the M.I.P.C. Board for recommendations. ~~of the latter~~. The Chief Engineer(North) may beaddressed. A draft of which is placed below for perusal.

4/3/70.

Dy.Secretary to Government,
P.W.D.(Irrn).

-29-

Secretary, P.W.D.

1) Draft may issue
2) Also show case to FD, so that they are prepare before the MIPC Board meeting
3) P/ prepare a note for consideration by TAC & MIPC Board 4/3/70

1) Issue & put up 5/3/70.

ISSUED
Dated 5/3/70

Dy.Secy(T)/5/3/70.

Notes 19-20 may please be seen. Also the letter of the CE SI No 18. This subject is included in the agenda of the Technical Sub committee and is also proposed to be included in the agenda of TIDC Board. As suggested by the SEO at note 24 ante, the file may be seen by FD.

FD)

10/3

S. P. [illegible],
Under [illegible]

-26-

This subject was also discussed in the Technical Sub committee on 13.3.70. The proceedings of the Sub committee are placed at p 63-65 ante. The subject was also discussed in the TIDC Board on 19.3.70. It was agreed that with a view not to lose any further time in commencing the work, the CE (N) may issue a letter of intent to the contractor, M/S Sheth Construction Co Ltd, who are the lowest tenderer, asking them to commence the work.

M/S Sheth Construction Co. in their letter dated 17-1-70 at p 57 ante while agreeing to carry out their conditions have not made it very clear, unambiguously understand of all the conditions. They have stipulated that some of the items in their Annexure B at p 57 ante

by way of clarifications and that these required to be borne in mind. Since this letter of the firm was not categorical, we were asked to clarify the same by the CE on 7-3-70. vide p 61/c. In reply again the firm have agreed to delete ~~the~~ the terms relating to clarifications mentioned in their previous letter. But even this letter at p 62 c. is not very clear. Therefore it is desirable to obtain from the contractor a categorical confirmation that he has withdrawn all his conditions. It was agreed in the TIPC Board that the draft ~~letter~~ of the letter to be obtained from the contractor in this ~~case~~ matter could be furnished to CE in consultation with FD and WD.

A draft ~~enclosed~~ to CE. (N) in the matter is placed below for perusal and approval.

DS
dt. 15/3

15/3

-27-

Discussed with Sec. PW. It was suggested that instead of asking — letter from the contractor, the Chief Engineer could address the contractors, laying down the conditions under which the tenders were accepted. A modified draft as discussed is placed below.

15/3

Draft

negotiated
The tender for M/s Shah Construction Co. has been examined by the Technical Sub Committee and by the MIPC Board, who have recommended its acceptance. FD may kindly see the draft of the letter proposed to be issued to the CE/IN requesting him to issue a letter of intent as per draft enclosed. The draft will also be shown to LD before issue

16/3/70

FS (Shri Mani Narayanaswamy)

- 29 -

Seen. Thanks

Mani Narayanaswamy

16.3.70

Secy PWD

- 30 -

The two letters from the Contractors ~~and~~ dated 17.1.1970 and 12-3-70 may please be seen, in addition to the tender itself from M/s Shah Construction Co. A draft of the proposed letter to be issued to them by the CE/IN may kindly be seen and for advice urgently, as the working season is fast coming to a close.

16/3/70

LD

-31-

The draft was discussed in common personally to Sri. M.V. Ramaswamy, JS.LD. He has made some corrections in the draft and approved the same. The letter to CE may issue this draft with the corrections after personal approval of CM.

Secy
CM

17/3

-32-

To Note 28 onwards are for perusal. The draft letter at Flag A, as agreed to by FD and seen by LD, may kindly be approved.

17/3/20

CM. -33-

V. Sinha
18/3

-34-

Secy
Pers

18/3

Issued on 18/3/20

-35-

Letter at P73 issued to the CE 2.0 (N). Submitted for further orders.

SH
20/3/20

20/3/20

-36-

P/No 26 ante may be seen. A etc
Note 17. A draft Go. may be put up accepting
the tenders of M/s Stark Constn. Co, Chennai with
cost to FD in connection

20/3

-37-

Draft G.O is put-up at pages
74-78 for Consideration in Committee
with F.D.

~~SK~~
21/3/70. FD)

22/3

-38-

G.O.M.P.D [151]/70 (LOAS) &

Seen & returned

H.C. Srinivasa 20/4/70

H. C. SREENIVASA.
Under Secy., F.D. (Works) & S. Issues

20/4/70 P.U.O)

-39-

Draft Go according approval to the tenders
of M/s Stark Constn. Co., for the works
of Dharwar Dam may be seen and
approved.

DS

(40)
MB
30/4

22/4

Issued on 30/5/70

R. & I. SECTION
P. W. D. Secretariat
No 59581
Date 22 APR 1970
Section 07

Sl No 18. Receipt. letter from the CE I.P(N).

-41-

The letter from the CE I.P(N) at-Sl No 18 is for kind perusal. In the circumstances explained therein, the CE requests orders of Govt as to whether the Guarantee bonds from M/s Oriental Fire and General Insurance Co. LTD. Bombay may be accepted towards the E.M.D at- 2½% of the estimated Cost of the work to be furnished by M/s Shah Construction Co. LTD. Bombay to whom the work of Almatti dam estimated to Cost Rs 6.66,64,191/= has been entrusted as per Govt orders dated 13.5.70 at-Sl No 17. F.D may kindly see for favour of advice

18/8/70.

FD) -42-

19/8

Finance Department(W&S.I)

U.O.Note No.FD/4347/W.I/70.

P.W.D. is requested to put up the files leading to the issue of similar orders if any as stated in the letter under reference.

H.C. Sreenivasa 25/8/70

(H.C.SREENIVASA)
Under Secretary to Government,
Finance Department(W.I)

PWD)

25/8/70

2983

R & I. SECTION
Fin. & Elec. Dept.
No. 13277
Date 27 AUG 1970
Section G.S.

Ref para 42 ante. Draft letter transmitting the CE to ~~~~ furnish copies of tour orders, if any, ~~~~ for audit. The office is not aware of such T.O's.

28/8/20.

28/8

29/8

Issued on 31/8/20

Record B

90

GOVERNMENT OF MYSORE

No. PWD 20 GUK 69

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 29th AUGUST *197* 0.
31

FROM

The *Secretary to the Government of Mysore*
Public Works & Electricity Department.

To

The Chief Engineer,
Irrigation (North),
Dharwar.

Sir,

Sub: Tenders for the work of Construction of Almatti Dam Reach I, II and III Security Deposit regarding the..

...

With reference to your letter No.UKP/ ALM/59,dt.31.7.70 on the above subject, I am directed to request you to forward for reference copies of Government Orders if any issued accepting such guarantee bonds on other projects, as stated in your letter under reference.

An early reply is requested.

Yours faithfully,
Sd/- S.K.MOHAN,
Under Secretary to Government,
Public Works & Electricity Dept.

31/8/70

Authorised for Issue,

3/8/70.

Section Officer, P.W.&.E.D.

b/c

PWD 8-4-4/69 89

To

The CE I P (N) Dharwar.

Sir,

Sub: As at- Sl No 18

With to your letter No UKP/ALM/59 dated 31.7-70 on the above subject- I am directed to request you to forward for reference copies of tour orders, if any issued accepting such guarantee bonds & other proofs as stated in your letter under reference.

An early reply is requested.

Y. P

Sy

US(T)

28/8/70.

Sym in 3 cs

SL No 18.

GOVERNMENT OF MYSORE

88

Tele gram: "CENORTH"
phone (Per: 8412
Gen: 8594

From:
THE CHIEF ENGINEER, PWD.,
IRRIGATION (NORTH),
P. B. NO : 23,
DHARWAR-1.

To:
The Secretary to Government
of Mysore, Public Works Department,
BANGALORE.

No. UKP/ALM/69 Enclo: Date: 31 JUL 1970

2648.

A. & I. SECTION
P. W. & Elec. Dept.
No. 40190
Date 4 AUG 1970
Section G.I

SUB: Tenders for the work of Constructions of Almatti Dam Reach I, II and III Security Deposit Regarding the..

SL No 17.

Ref: Government order No.PWD 20 GUK 69 dt.13-5-70.

Sir,

In accepting the tenders of M/S. Shah Construction Co. Ltd, Bombay under Government order mentioned above, the following condition was laid in respect of Earnest Money:-

"Earnest Money Deposit Equivalent to 2½ % of the estimated cost of the work shall be given by the Contractor in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds(acceptable to Government) may be furnished. The validity of the Bank Guarantee or of the Bonds shall be such as to expire not less than one year after the agreed date of completion of the works."

It is reported that the firm has furnished a guarantee bond towards security deposit from M/S. Oriental Fire and General Insurance Company Ltd, Bombay. The Executive Engineer, U.K.P.Dam Site Division Almatti addressed the firm to the effect that guarantee bonds with the concurrance of Reserve Bank of India, are required as per rules and the one issued by M/S. Oriental Fire and General Insurance Company Ltd Bombay cannot be accepted.

In response to the Executive Engineer's letter the firm has replied that M/S.Oriental Fire and General Insurance Company Ltd, Bombay is a fully Government owned Company and that they have furnished similar guarantee bonds on other projects and are also accepted by the concerned Government Authorities. They have further stated that they have already made sufficient advance in procuring guarantee bonds from M/S.Oriental Fire and General Insurance Company Ltd Bombay and they are unable to effect alternatives (A copy of the Firm's letter is enclosed)

Acceptance of guarantee bonds of an Insurance Company is not covefed in the Government letter No.PWD 20 GUK 69 dt. 13-5-70. As such orders of Government may please be communicated whether Guarnantee bonds from M/S.Oriental Fire and General Insurance Co.Ltd, Bombay can be accepted under the above circumstances.

Encls:-
Copy of letter from the Firm.

Yours faithfully,
Chief Engineer, PWD I(North)

30/7 & 30/7/70

Copy of letter No.SCC.CE.3820 dated 30-6-1970 of M/S.Shah Construction Company Limited, Engineers and Contractors Bombay addressed to the Executive Engineer,UKP Dam Site Dn,Almatti.

---x---

Sub: Construction of Almatti Dam-Reaches I,II and III

Ref: Your letters No.ACT/AC-1/70-71/2446-47 dt.19-6-70 and No.ACT/AC-1/UKP/70-71/AB/Security 2642-43 dated 23-6-70.

We refer to your above letters and beg to state that we have arranged guarantee bonds towards security-deposit from M/S.Oriental Fire and General Insurance Company Ltd,as per para 2(b) of your letter of acceptance, which provides for furnishing of 2½ % Earnest Money by way of-guarantee or any other Security bonds. Accordingly in this case we have furnished guarantee bonds from M/S.Oriental Fire and General Insurance Co.Ltd, which is a fully-Government owned Compnay which we trust would be acceptable to you. We have furnished similar guarantee bonds on other projects and have been accepted by the concerned Government authorities.

As regards concurrence or endorsement from the Reserve Bank of India, we have to inform you that our-guarantors have informed us that it is not their practice to obtain the concurrence or endorsement from Reserve Bank of India as they are fully empowered to do this kind of business without any restrictions. We have therefore to request you not to press for the concurrence or endorsement of Reserve Bank of India.

As we had made sufficient advance in procuring guarantee bonds from M/S.Oriental Fire and General Insurance Co.Ltd,before your letter No.888/2 dated 5-5-70 we were unable to effect alterations.

Regarding the value of stamp paper,we are taking up the matter with the guarantors and if the stamp paper of Rs.22.50 is necessary, we would carry out the necessary modificationsin this regard.

Thanking You.

"True Copy".

Sd/- Superintending Engineer,U.K.P.C.

Copy

K.G.Srinivasamurthy 30/7/70

30/7

The tenders were examined by the Technical Sub-Committee of the Major Irrigation Project Control Board on 18-12-1969 and were also considered by Major Irrigation Project Control Board in its meeting held on the same day. It was decided by the Board that the Chief Engineer be requested to conduct negotations with all the tendered contractors offering the following two conditions:

1) 2½% Earnest Money Deposit may be given in the form of bank guarantee from any one of the scheduled banks or security bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

ii) Further security Deposit may be limited to 2½% to be deducted from the R.A.bills out of which, ½% may be converted into a bank guarantee or security bonds acceptable to Government, the validity of which to expire one year after the date of completion of the works.

In response to negotiations conducted, M/s.Shah Construction Company,Ltd., Bombay have withdrawn their conditions except minor ones. They have demanded a premium of ½% on their originally quoted rates. Their net offer as evaluated, after negotations, stands at Rs. 6,66,54,191/- for all the three reaches at 6.67% below estimate and they are the lowest.

The matter was placed before the Technical sub-committee of the Major Irrigation Projects Control Board and Major Irrigation Projects Control Board in its meeting held on 14-3-1970 have recommended acceptance of the offer of M/s.Shah Construction Company Ltd., Bombay subject to certain conditions.

ORDER NO.PWD 20 GUK 69,DATED,BANGALORE 13 MAY,1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

1. Earnest Money Deposit Equivalent to 2½% of the estimated cost of the work shall be given by the contractor in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government)

.....3.....

may be furnished. The validity of the Bank Guarantee or of the Bonds shall be such as to expire not less than one year after the agreed date of completion of the works.

2. Further Security Deposit may be limited to 2½% of the estimated cost of the work and may be deducted from the running account bills, out of which ½% may at Contractor's option be converted into Bank-Gaurantee or Security Bonds (acceptable to Government) the validity of which should expire not less than one year after the scheduled date of completion of the works.

3. Electric power at 440 V. and at required points will be made available by the Department, the consumption charges at bulk supply rates as prescribed by the Mysore State Electricity Board together with all taxes thereon will be deducted from the bills.

4. Dewatering of foundations at 80 paise (Paise Eighty only) per hour (per h.P) of installed capacity of pumps actually used will be paid subject to a maximum limit of Rs.3,50,000/- as mentioned below:-

Reach - I.	Rs.	66,600
Reach - II.	Rs.	2,78,000
Reach - III.	Rs.	5,400
Total:		3,50,000

5. For the quantity of Masonry constructed using rubble stones obtained from the excavated material, the quoted rates for the item of work will be reduced by 50 paise (paise fifty only) per Cubic Meter of Masonry.

6. All the Contractors quoted rates are inclusive of costs, regarding the coffer dam, and such other - diversion works.

7. The contractor shall insert pipes in masonry for grouting and grouting will be done through the pipes if required. This will have no effect on the tendered rates for masonry or concrete or for the grouting pipes and contractor will not be entitled to any extra rate or compensation on account of the same.

8. The drawings furnished along with the tender by the Department are only tentative and are for

guidance only. For all alterations in the specification and designs, the conditions; mentioned in Clause-13 of the Schedule of contract from accompanying the Tender will hold good.

This order issues with the concurrance of the Finance Department vide their U.O.Note No.1651/70 (W&S)-I dated 20-4-1970.

(G.K.MOHAN)
Under Secretary to Government,
Public Works & Elecy.Department.

Issued 13/5/70
Dated

To

1. The Chief Engineer, Irrigation Project (North), Dharwar.
2. The Accountant General, Mysore, Bangalore.
3. The Finance Department (W&S).

Tvsl.

The tenders were examined by the Technical Sub-Committee of the Major Irrigation Project Control Board on 18-12-1969 and were also considered by Major Irrigation Project Control Board in its meeting held on the same day. It was decided by the Board that the Chief Engineer be requested to conduct negotiations with all the tendered contractors offering the following two conditions:

1) 2½% Earnest Money Deposit may be given in the form of bank guarantee from any one of the scheduled banks or security bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

ii) Further security Deposit may be limited to 2½% to be deducted from the R.A.bills out of which, ½% may be converted into a bank guarantee or security bonds acceptable to Government, the validity of which to expire one year after the date of completion of the works.

In response to negotiations conducted, M/s.Shah Construction Company,Ltd., Bombay have withdrawn their conditions except minor ones. They have demanded a premium of ½% on their originally quoted rates. Their net offer as evaluated, after negotations, stands at Rs. 6,66,54,191/- for all the three reaches at 6.67% below estimate and they are the lowest.

The matter was placed before the Technical sub-committee of the Major Irrigation Projects Control Board and Major Irrigation Projects Control Board in its meeting held on 14-3-1970 have recommended acceptance of the offer of M/s.Shah Construction Company Ltd., Bombay subject to certain conditions.

ORDER NO. FWD 20 GUK 69, DATED, BANGALORE MAY, 1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

1. Earnest Money Deposit Equivalent to 2½% of the estimated cost of the work shall be given by the contractor in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government)

.....3.....

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works & Electricity Department)

Subject:-Tenders for the construction of Almatti Dam - Approval of -

—

Read:-

i) Correspondence ending with letter No.UKP/ALM/69 dated 25-2-1970 from the Chief Engineer, Irrigation Projects (North), Dharwar.

ii) Letter No.PWD 20 CDE 69 dated 18.3.1970 addressed to the Chief Engineer, Irrigation Projects (North), Dharwar.

Preamble:-

It is reported by the Chief Engineer, Irrigation Projects, (North) Dharwar that the tenders were invited for the Almatti Dam limiting the height of the Dam to R.L.1620 in river portion estimated to cost Rs.7.14 Crores. The work was devided into three reaches as under:-

i) Left side nonspill way dam in Earth and Masonry from Ch. 0 to 665 M. upto final height estimated to cost Rs.254.4 lakhs.

ii) Central Portion of Masonry dam mainly comprising spill way and power dam ~~branch~~ from Ch.665 to 1363.5 M. upto partial height of R.L.1620ft. estimated to cost Rs.419.7 lakhs.

iii) Right flank non-spill way masonry dam to the final height from Ch.1363.50 M to 1573 M. estimated to cost Rs.59.97 lakhs.

Separate tenders were invited by the Chief Engineer for all the three reaches under a single Notification dated 5.7.1969. The contractors were also asked to offer their possible rebate if all the three works were entrusted to them.

In all, 9 contractors offered their rates of whom seven have tendered for reach I. Six for reach II and all the nine for reach III. Out of these, five contractors have quoted for all the three reaches, two for reaches I & III, one for reaches II and III and one for reach III alone. Five contractors out of these have putforth various conditions. Evaluating the values of all the tenders with conditions stated, the tender of M/s. Shah Construction Company, Bombay, is the lowest for all the three reaches considered individually and collectively. The evaluated value of their tenders of all the three reaches considered together works out to Rs.666.54 lakhs (6.65% below estimate). The tender amount as per the quoted rates of the firm will be Rs.661.19 lakhs (7.43 below the estimate which will be taken as the tender discount)

....2.....

The tenders were examined by the Technical Sub-Committee of the Major Irrigation Project Control Board on 18-12-1969 and were also considered by Major Irrigation Project Control Board in its meeting held on the same day. It was decided by the Board that the Chief Engineer be requested to conduct negotations with all the tendered contractors offering the following two conditions:

i) 2½% Earnest Money Deposit may be given in the form of bank guarantee from any one of the scheduled banks or security bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

ii) Further security Deposit may be limited to 2½% to be deducted from the R.A.bills out of which, ½% may be converted into a bank guarantee or security bonds acceptable to Government, the validity of which to expire one year after the date of completion of the works.

In response to negotiations conducted, M/s.Shah Construction Company,Ltd., Bombay have withdrawn their conditions except minor ones. They have demanded a premium of ½% on their originally quoted rates. Their net offer as evaluated, after negotations, stands at Rs. 6,66,54,191/- for all the three reaches at 6.67% below estimate and they are the lowest.

The matter was placed before the Technical sub-committee of the Major Irrigation Projects Control Board and Major Irrigation Projects Control Board in its meeting held on 14-3-1970 have recommended ~~acceptance~~ acceptance of the offer of M/s.Shah Construction Company Ltd., Bombay subject to certain conditions.

ORDER NO.PWD 20 QJK 69,DATED,BANGALORE MAY,1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

1. Earnest Money Deposit Equivalent to 2½% of the estimated cost of the work shall be given by the contractor in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government)

.....3.....

may be furnished. The validity of the Bank Guarantee or of the Bonds shall be such as to expire not less than one year after the agreed date of completion of the works.

2. Further Security Deposit may be limited to 2½% of the estimated cost of the work and may be deducted from the running account bills, out of which ½% may at Contractor's option be converted into Bank-Gaurantee or Security Bonds (acceptable to Government) the validity of which should expire not less than one year after the scheduled date of completion of the works.

3. Electric power at 440 V. and at required points will be made available by the Department, the consumption charges at bulk supply rates as prescribed by the Mysore State Electricity Board together with all taxes thereon will be deducted from the bills.

4. Dewatering of foundations at 80 paise (Paise Eighty only) per hour (per H.P) of installed capacity of pumps actually used will be paid subject to a maximum limit of Rs.3,50,000/- as mentioned below:-

Reach - I.	Rs.	66,600
Reach - II.	Rs.	2,78,000
Reach - III.	Rs.	5,400
	Total:	3,50,000

5. For the quantity of Masonry constructed using rubble stones obtained from the excavated material, the quoted rates for the item of work will be reduced by 50 paise (paise fifty only) per Cubic Meter of Masonry.

6. All the Contractors quoted rates are inclusive of costs, regarding the coffer dam, and such other - diversion works.

7. The contractor shall insert pipes in masonry for grouting and grouting will be done through the pipes if required. This will have no effect on the tendered rates for masonry or concrete or for the grouting pipes and contractor will not be entitled to any extra rate or compensation on account of the same.

8. The drawings furnished along with the tender by the Department are only tentative and are

guidance only. For all alterations in the specification and designs, the conditions mentioned in Clause-13 of the Schedule of contract form accompanying the Tender will hold good.

This order issues with the concurrence of the Finance Department vide their U.O.Note No.1651/70 (WRD)-I dated 20-4-1970.

(S.K.MOHAN)
Under Secretary to Government,
Public Works & Elecy.Department.

To

1. The Chief Engineer, Irrigation Project (North), Dharwar.
2. The Accountant General, Mysore, Bangalore.
3. The Finance Department (WRD).

Tvel.

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works & Electricity Department)

Subject:-Tenders for the construction of Almatti Dam - Approval of -

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Read:-

i)Correspondence ending with letter No.URP/ALM/69 dated 25-2-1970 from the Chief Engineer,Irrigation Projects (North),Dharwar.

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ii)Central Portion of Masonary dam mainly comprising spill way and power dam ~~breach~~ from Ch.665 to 1363.5 M. upto partial height of R.L.1620ft. estimated to cost Rs.419.7 lakhs.

iii)Right flank non-spill way masonary dam to the final height from Ch.1363.50 M to 1573 M.estimated to cost Rs.39.97 lakhs.

Separate tenders were invited by the Chief Engineer for all the three reaches under a single Notification dated 5.7.1969. The contractors were also asked to offer their possible rebate if all the three works were entrusted to them.

In all, 9 contractors offered their rates of whom seven have tendered for reach I. Six for reach II and all the nine for reach III. Out of these, five contractors have quoted for all the three reaches,two for reaches I & III, one for reaches II and III and one for reach III alone. Five contractors out of these have putforth various conditions. Evaluating the values of all the tenders with conditions stated,the tender of M/s. Lakh Construction Company,Bombay, is the lowest for all the three reaches considered individually and collectively. The evaluated value of their tenders of all the three reaches considered together works out to Rs.666.54 lakhs (6.66% below estimate). The tender amount as per the quoted rates of the firm will be Rs.661.19 lakhs(7.4% below the estimate which will be taken as the tender discount)

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i) 2½% Earnest Money Deposit may be given in the form of bank guarantee from any one of the scheduled banks or security bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

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In response to negotiations conducted, M/s.Shah Construction Company,Ltd., Bombay have withdrawn their conditions except minor ones. They have demanded a premium of ½% on their originally quoted rates. Their net offer as evaluated, after negotations, stands at Rs. 6,66,54,191/- for all the three reaches at 6.67% below estimate and they are the lowest.

The matter was placed before the Technical sub-committee of the Major Irrigation Projects Control Board and Major Irrigation Projects Control Board in its meeting held on 14-3-1970 have recommended ~~unconditional~~ acceptance of the offer of M/s.Shah Construction Company Ltd., Bombay subject to certain conditions.

ORDER NO.PWD 20 GUK 69,DATED,BANGALORE MAY,1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

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5. For the quantity of Masonry constructed using rubble stones obtained from the excavated material, the quoted rates for the item of work will be reduced by 50 paise (paise fifty only) per Cubic Meter of Masonry.

6. All the Contractors quoted rates are inclusive of costs, regarding the coffer dam, and such other - diversion works.

7. The contractor shall insert pipes in masonary for grouting and grouting will be done through the pipes if required. This will have no effect on the tendered rates for masonry or concrete or for the grouting pipes and contractor will not be entitled to any extra rate or compensation on account of the same.

8. The drawings furnished along with the tender by the Department are only tentative and are for

M. G. S. App. F VI—G. 2]

SUBJECT Tenders for the Constructing Almatti Dam — Approval of —

Diary No. of letter replied to.....

Section

Serial No.

File No.

Mysore Government Secretariat

( )

the 195 .

Proceedings of the Government of Mysore

Date of Issue.....195

Signed by.....

May this be—

(i) printed?
(ii) treated as a Standing Order?
(iii) published in the Gazette, English Part?
(iv) translated?
(v) placed at the disposal of the Press?
(vi) published in the Gazette, Kannada Part?

Read— i) Correspondence ending with letter no UKP/ALM/59 dated 25.2.70 from the CE 2 p/N

ii) letter no PWD 20-Tuk69 dated 18.3.70 addressed to the CE I.P (N) Dharwar.

Order-thereon—No

It is reported by the CE 2.p/N that the tenders were ~~finalised~~ (omitted) for the Almatti Dam limiting the height of the Dam to R.L. 1620 in river portion estimated to cost Rs 7.14 Crores. The work ~~to~~ devided into three reaches as under:-

i) Left side non spillway & ~~&~~ Earth cum Masonry from ch. ~~to~~ M. upto bund height

guidance only. For all alterations in the specification and designs, the conditions mentioned in Clause-13 of the Schedule of contract form accompanying the Tender will hold good.

This order issues with the concurrence of the Finance Department vide their U.O.Note No.1651/70 (WRD)-I dated 20-4-1970.

(S.K.MOHIY)
Under Secretary to Government,
Public Works & Elecy.Department.

To

1. The Chief Engineer, Irrigation Project (North), Dharwar.
2. The Accountant General, Mysore, Bangalore.
3. The Finance Department (W&S).

Tvm.

estimated to Cost Rs. 254.4 Lakhs.

ii) Central portion of masonry dam mainly comprising Spill way and power dam from ch. 665 to 1363.5M. upto partial height of R.L. 1620 ft, estimated to Cost Rs. 419.7 Lakhs.

iii) Right- blank non- Spill way masonry dam to the final height from ch. 1363.50 M to 1573 M estimated to Cost Rs 39.97 Lakhs.

Separate tenders were invited by the Ch. for all the three Reaches under a single prequalification dated 5.7.69. The Contractors were also asked to offer their possible rebate if all the three works were entrusted to them.

In all, 9 Contractors offered their tenders of whom seven have tendered for Reach I, six for Reach II and all the nine for Reach III. Out of these, five Contractors have quoted for all the three Reaches, two for Reaches I + III, one for Reaches II and III and one for Reach III alone. Five Contractors out of these have put forth various Conditions. Evaluating the values

List-of-Enclosures.

Copied by

Examined by

of all the tenders with Conditions stated,

The tender of
M/S Shah Construction Co, Bombay, is the
~~works out~~ lowest for all the three branches considered individually and collectively. The evaluated value of their tenders of all the three branches considered together works out to Rs 666.54 lakhs (6.66% below estimate). The tender amount as per the quoted rates of the firm will be Rs 661.19 lakhs (7.4% below the estimate which will be taken as the tender discount ~~the estimate~~)

~~for the work. The CE I.P has recommended~~

(x4) The tenders were examined by the Technical Sub committee of the TTDC Board on 18-12-03 and were also considered by TTDC Board — the meeting held on the same day. It was decided by the Board that the CE be requested

to Conduct negotiations with all the tenderers Contractors offering the following two Conditions:

i) $2\frac{1}{2}$% E.M.D may be given in the form of bank guarantee from any one of the Scheduled banks or Security bonds (acceptable to Govt) the validity of which to expire one year after the date of Completion of the works.

ii) Further Security Deposit may be limited to $2\frac{1}{2}$% to be deducted from the R.A bills out of which $\frac{1}{2}$% may be Converted into a bank guarantee or Security bonds acceptable to Govt, the validity of which to expire one year after the date of Completion of the works.

In response to negotiations conducted M/s Shah Construction Co. Ltd Bombay have withdrawn their Conditions except minor ones. They have demanded a premium of ½% on their originally Quoted rates. Their net-offer as evaluated, after negotiations, stands at Rs 6,66,54,191/- for all the three reaches at- 6.67% below estimate and they are the lowest.

The matter was placed before the Technical Sub-Committee of the MIPC Board and MIPC Board. ~~Both the Technical Sub-Committee and~~ in its meeting held on 14-3-70 The MIPC Board, have recommended ~~to accept~~ the offer of M/s Shah Construction Co. Bombay subject to certain Conditions:

order No PWD 20 IPIK 69 dated

After Considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s Shah Construction Co. Bombay for all the three reaches mentioned above which works out to Rs 6,66,54,191/- (in words)

at- 6.67% below estimate subject-
to the following conditions :-

x x x

[Here enter conditions No 1-8 from
P72-73 C/F]

x x x

This order issues with the
Concurrence of F.D vide their U.O.
No 1651/70 (WS)I dated 20-9-70

Sd/
U.S.P WD (T)
21/3/70

To
The CE I A (N) Dharwar.
The A.-g.
The F.D (Sd) WRD

Sl No 18

GOVERNMENT OF MYSORE.

No.PWD.14.LLM.70. 2

MINOR GOVERNMENT SECRETARIAT,
Vidhana Soudha,
Bangalore, dated 30th April 1970

From

The Deputy Secretary to Govt.
P.W.D.(Irrigation), & Ex-Officio
Secretary, M.I.P.C.Board.

To

1)The Secretary to Govt.P.W.& S.Dept.,Bangalore.
2) -do- Finance Dept.,Bangalore.
3) -do- D.U.P.C.Dept.,Bangalore.
4)The Addl.Secretary to Govt. P.W. & S.Dept.,Bangalore.
5)The Chief Engineer,Irrigation(South), Bangalore.
6) -do- (North), Dharwar.
7)Director/Chief Engineer,C.W.D.C.Bangalore.
8)The Director of Agriculture in Mysore, Bangalore.
9)Prof. M.S.Govinda Rao,B.E.,(Civil),M.I.E.P.A.S.C.,F.M.I.W.Rtd. Advisor, Central Board of Irrigation & Power, No.23, Diagonal Road, Vishveswarapuram, Bangalore.
10)Sri A.K.Char, Retired Chief Engineer, Chambal Project, Bangalore.
11)Sri P.M.Mane, Retired Member, Central Water & Power Commission, Bombay.

Sir,

Sub:34th meeting of the M.I.P.C.Board held on 14-3-1970 - proceedings of the meeting.

Ref:Govt.Letter No.PWD.14.LLM.70, dated 13-3-1970.

-:-

In continuation of Govt.letter cited above, I am directed to forward herewith the proceedings of the 34th meeting of the Major Irrigation Projects Control Board held on 14-3-1970 in the Chambers of the Chief Minister, Government of Mysore,Vidhana Soudha, Bangalore, for kind information.

PWD (Gl. Irrgn).
No Date

Yours faithfully,

sd/-
(P.N.Nagendra Murthy),
Deputy Secretary to Govt. P.W.D.(Irrigation),
& Ex-Officio Secretary,M.I.P.C.Board.

svdp/18.

Copy of the above is forwarded for information to:-

1)The P.S.to the Chief Minister,Vidhana Soudha,Bangalore.
2)The P.A.to the Deputy Minister for Major Irrn.& Elecy.Bangalore.
3)The Under Secretary to Govt.,P.W.D(Technical),Bangalore.
4)The Section Officers,Major/General Irrigation Sections.

Deputy Secretary to Govt.,P.W.D(Irrn),
& Ex-Officio Secretary,M.I.P.C.Board.

Sl No 15

GOVERNMENT OF MYSORE.

No.PWD.14.LLM.70. 2 / MYSORE GOVERNMENT SECRETARIAT,
Vidhana Soudha,
Bangalore, dated 30th April 1 9 7 0.

From

The Deputy Secretary to Govt.
P.W.D.(Irrigation), & Ex-Officio
Secretary, M.I.P.C.Board.

To

1)The Secretary to Govt.P.W.& S.Dept.,Bangalore.
2) -do- Finance Dept.,Bangalore.
3) -do- D.M.P.C.Dept.,Bangalore.
4)The Addl.Secretary to Govt. P.W. & S.Dept.,Bangalore.
5)The Chief Engineer,Irrigation(South), Bangalore.
6) -do- (North), Dharwar.
7)Director/Chief Engineer,M.R.D.C.Bangalore.
8)The Director of Agriculture in Mysore, Bangalore.
9)Prof. M.T.Govinda Rao,B.E.,(Civil),M.I.E.F.A.S.C.,F.M.I.E.Hon.,
Advisor, Central Board of Irrigation & Power, No.23, Diagonal
Road, Vishveswarapuram, Bangalore.
10)Sri A.K.Char, Retired Chief Engineer,
Chambal Project, Bangalore.
11)Sri P.M.Mane, Retired Member,
Central Water & Power Commission,
Bombay.

Sir,

Sub:34th meeting of the M.I.P.C.Board held on 14-3-1970 -
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PWD (Gl. Irrgn).
No. Date

Yours faithfully,

sd/-
(P.N.Nagendra Murthy),
Deputy Secretary to Govt. P.W.D.(Irrigation),
& Ex-Officio Secretary,M.I.P.C.Board.

svdp/18.

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1)The P.S.to the Chief Minister,Vidhana Soudha,Bangalore.
2)The P.A.to the Deputy Minister for Major Irrn.& Electy.Bangalore.
3)The Under Secretary to Govt.,P.W.D(Technical),Bangalore.
4)The Section Officers,Major/General Irrigation Sections.

Deputy Secretary to Govt.,P.....n),
& Ex-Officio Secretary,M.I.P.C.Board.

PROCEEDINGS OF THE THIRTYFOURTH MEETING OF THE MAJOR IRRIGATION PROJECTS CONTROL BOARD HELD ON 14TH MARCH 1970, AT 1.00 P.M. IN THE CHAMBERS OF THE CHIEF MINISTER, GOVT. OF MYSORE.

-:-

Members present:

Sriyuths:

1) Veerendra Patil, Chief Minister, Government of Mysore, Bangalore.	Chairman.
2) D. Parameswarappa, Deputy Minister for Major Irrigation & Electricity.	Vice Chairman.
3) A.K. Char, Retired Chief Engineer, Chambal Project, Bangalore	Member.
4) Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation & Power Bangalore.	"
5) Iftekhar Ahmed, Secretary, Public Works & Electricity Department, Bangalore.	"
6) Mani Narayanaswamy, Secretary, Finance Department, Bangalore.	"
7) N. Narasimha Rao, Joint Development Commissioner & Secretary, D.A.P.C. Department, Bangalore.	"
8) K. Basanna, Chief Engineer, Irrigation (South), Bangalore.	"
9) S.G. Balekundry, Chief Engineer, Irrigation (North), Dharwar.	"
10) Dr. H.R. Arakere, Director of Agriculture, in Mysore, Bangalore.	"
11) B.C. Angadi, Director, Water Resources Development Organisation, Bangalore.	"
12) P.R. Nagendra Murthy, Deputy Secretary, P.W.D. (Irrigation)	Secretary.

Members Absent:

1) P.M. Mane, Retired Member, Central Water & Power Commission, Bombay.	Member.

SUBJECT No. 1:

Confirmation of the proceedings of the 33rd meeting of the M.I.P.C. Board held on 18th December 1969.

" C O N F I R M E D "

Subject No. 2:

Consideration of the tenders received for the construction of a dam from CH 0 to 1573 meters including foundation treatment etc., at Almatti - Upper Krishna Project.

In the 33rd meeting of the Control Board held on 18-12-1969, the Chief Engineer had been directed to conduct further negotiations with all the contractors and to report to Government the

result of negotiations conducted.

The Technical Sub Committee, ~~xxxxx~~ relating to North Zone in its meeting held on 13-3-1970 have considered the report of the Chief Engineer after conducting negotiations with all the Contractors. The Technical Sub Committee have recommended the acceptance of the tender of Messrs. Shah Construction Company after obtaining from the contractors an undertakin that all his conditions previously putforth along with his tender are withdrawn except for the following items which have been accepted by the Government.

1) Electrical power of 440 volts at required point will be made available by the Department. The consumption charges at bulk supply rates as prescribed by the M.S.E.B. being deducted from the Contrator's bill.

2) De-watering foundation at 85 paise per HP of the capacity of pumps actually used or installed being paid subject to a maximum limit of Rs.3,50,000/-.

3) For the quantity of masonry constructed using rubble stone obtained from the excavated material, the contractor's rate for the items of work would be reduced by 50 paise per cubic meter of masonry.

It was agreed to accept the recommendations of the Technical Sub Committee and direct the Chief Engineer to issue a letter of intent to the contractor, so that he could start the work immediately. It was also agreed that a draft letter of intent to be addressed to the contractor by the Chief Engineer would be furnished by the Secretary, P.W.D. to the Chief Engineer after obtaining approval for the same from the Law Department and the Finance Department.

Subject No.3:

Consideration of the tenders received for the construction of masonry dam for partial height in spill way and non-over flow section across Harangi River.

The proceedings of the meeting of the Technical Sub Committee relating to the South Zone held on 13-3-1970, were considered and the recommendation of the Committee for accepting the lowest tender of Messrs.Balaji Engineering Construction Company was accepted.

.. 3

result of negotiations conducted.

The Technical Sub Committee ~~xxxxx~~ relating to North Zone in its meeting held on 13-3-1970 have considered the report of the Chief Engineer after conducting negotiations with all the Contractors. The Technical Sub Committee have recommended the acceptance of the tender of Messrs. Shah Construction Company after obtaining from the contractors an undertakin that all his conditions previously putforth along with his tender are withdrawn except for the following items which have been accepted by the Government.

1) Electrical power of 440 volts at required point will be made available by the Department. The consumption charges at bulk supply rates as prescribed by the M.S.E.B. being deducted from the Contrator's bill.

2) De-watering foundation at 85 paise per HP of the capacity of pumps actually used or installed being paid subject to a maximum limit of Rs.3,50,000/-

3) For the quantity of masonry constructed using rubble stone obtained from the excavated material, the contractor's rate for the items of work would be reduced by 50 paise per cubic meter of masonry.

It was agreed to accept the recommendations of the Technical Sub Committee and direct the Chief Engineer to issue a letter of intent to the contractor, so that he could start the work immediately. It was also agreed that a draft letter of intent to be addressed to the contractor by the Chief Engineer would be furnished by the Secretary, P.W.D. to the Chief Engineer after obtaining approval for the same from the Law Department and the Finance Department.

Subject No.3:

Consideration of the tenders received for the construction of masonry dam for partial height in spill way and non-over flow section across Harangi River.

The proceedings of the meeting of the Technical Sub Committee relating to the South Zone held on 13-3-1970, were considered and the recommendation of the Committee for accepting the lowest tender of Messrs.Balaji Engineering Construction Company was accepted.

.. 3

Subject No.4:

Construction of cement mortar masonry in lieu of Surki mortar masonry in Hemavathi Project.

The recommendations of the Technical Sub Committee for South Zone were considered and it was agreed that cement mortar may be used in lieu of surki mortar for the work in progress during the current season and meahwhile an Expert Committee consisting of the members of the Technical Sub Committee of the M.I.P.C. Board relating to the South Zone should examine this matter in full detail and furnish their advice to the M.I.P.C. Board for consideration.

Subject No.5:

Construction of cement mortar masonry for the training walls below the spill way of Kabini dam.

" D E F E R R E D "

Subject No.6:

Construction of the tenders received for the construction of earthen dam with irrigation sluice across Gundal River in Kollegal Taluk.

The recommendations of the Technical Sub Committee of the M.I.P.C. Board relating to the South Zone were considered. The Sub Committee in its meeting held on 13-3-1970 has recommended for acceptance, the second lowest tender of Messrs. Bangalore Construction Company, which was unconditional. After discussion, it was agreed that the Chief Engineer may negotiate with all the contractors, including the lowest tenderer, who may be asked to state whether he is prepared to withdraw all his conditions. The Chief Engineer should submit proposals to Government on the negotiations so conducted with the Contractors.

Subject No.7:

Estimate for construction of earth dam non spill way and spill way cement masonry dam for CH.0 to 1573 meter of Upper Krishna Project Almatti Dam.

...4

The Technical Sub Committee of the M.I.P.C. Board relating to North Zone in its meeting held on 13-3-1970 have recommended approval to these working estimates of the Almatti Dam. The recommendations of the Sub Committee were accepted.

Subject No.8:

Provisions for seismic forces in the Hemavathi Dam.

The Technical Sub Committee of the M.I.P.C. Board relating to the South Zone in its meeting held on 13-3-1970 have recommended that the proposals of the Chief Engineer for strengthening the dam for 0.05 g. be accepted. The recommendations of the Technical Sub Committee was approved.

Subject No.9:

Delegation of enhanced powers to the P.W.D.Officers for execution of works departmentally.

" D E F E R R E D "

Subject No.10:

Consideration of the tenders for construction of Devarabilikere pickup project head works with irrigation sluice, in Harihar Taluk, Chitradurg District.

" D E F E R R E D "

Subject No.11:

Supply and providing crest gates for Kabini Dam.

The Chief Engineer(South) pointed out that it was very necessary to immediately place orders for the manufacture and supply of the crest gates for Kabini dam to enable the storing of water in the Kabini Reservoir within a period of 2 years. It was also pointed out by the Chief Engineer that the tenders of Messrs. Tungabhadra Steel Products received some time back ~~x~~ in this matter which was within 5% of the lowest acceptable tender may be approved by Government. After discussion it was agreed that the tender of

....5

Messrs. Tungabhadra Steel Products for the supply, manufacture and erection of the gates for Kabini dam which was within 5% of the lowest acceptable tender be agreed to.

Subject No.12:

Supply and erection of crest gates for Suvarnavathi dam.

The Chief Engineer,(Irrigation)South pointed out that in the case of tenders received for the manufacture and supply and erection of the gates for Suvarnavathi dam, the tenderers had put a number of conditions for which Government had asked him to negotiate with the contractors. It was pointed out by him that none of the Contractors were agreeable to withdraw their conditions. It was finally agreed that the work may be let-out to Messrs. T.S.P. after negotiation. The Chief Engineer should submit his report in the matter to Government.

Subject No.13:

Venue for next meeting.

It was decided that the next meeting of M.I.P.C. Board be held at Kabini dam site.

30.3.70

(P.R.Nagendra Murthy),
Deputy Secretary to Government, P.W.D.(Irrn),
& Ex-Officio Secretary, M.I.P.C.Board.

(No.PWD.14.LLM.70).

svds.

Sh No 15 — 73

GOVERNMENT OF MYSORE

No. PWD 20 GUK 69

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA.

Dated, Bangalore, 18th March, 1970.

FROM

The *Secretary to the Government of Mysore*
Public Works & Electricity Dept.

To.

The Chief Engineer (North),
Irrigation, Dharwar.

Sir

~~Subject~~

I am directed that the subject of tenders for the work of construction of Almatti Dam, Upper Krishna Project were discussed in the Major Irrigation Project Control Board Meeting held on 14-3-70 and it was agreed that you may issue a letter of intent to the Contractors Messrs. Shah Construction Company Limited asking them to commence work immediately without loosing any time. Orders regarding the acceptance of their tender will be issued shortly. Draft of the letter to be issued by you is enclosed.

Yours faithfully,

(S. K. Mohan)
Under Secretary to Government,
P.W.D.(Technical).

Issued
Dated 18/3/70

cn/ Receive the letter and the following documents

Bench I — 7 Books — 49 Sheets
Bench II — 6 Books — 25 Sheets
Bench III — 9 Books — 34 Sheets
Nil — 11 Sheets
— 15 Sheets — one drawing

resignation

From

The Chief Engineer,
Irrigation (North), Dharwar.

To

M/s Shah Construction Company Ltd.,
Engineers & Contractors, 198,
Church Gate, Reclamation,
Datar Road, Bombay-2.

Sir,

Sub:- Tenders for the work of construction of Almatti Dam -- Upper Krishna Project.

Ref:- Correspondence ending with your letter No.SCL/CE/II/5535 dated 12th March 1970.

With reference to the above, I am to inform you that in pursuance of the agreement reached during the negotiations conducted your Tender for constructing Almatti Dam across Krishna River from 0 to 1573 Meters including - foundation excavation, foundation treatment and all other appurtenent works is accepted subject to the following conditions:-

1) All the conditions, stipulations and clarifications mentioned in the Appendix-A enclosed to your tender document are treated as withdrawn.

~~2) In partial modification of the provisions existing~~

2) For the said conditions, stipulations and clarifications the following shall stand substituted, namely:-

Two clauses not included in the L.O.A. instructed by C-S.

(a) E.M.D. equivalent to 2½% of the estimated cost of the work shall be given by you in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Govt.) may be - furnished. The validity of the Bank Guarantee or of the Bonds shall be such as to expire not less than one year after the agreed date of completion of the works;

(b) Further Security Deposit may be limited to 2½% of the estimated cost of the work and may be deducted from the running - account bills, out of which ½% may at your option be converted into Bank - Guarantee or Security Bonds (acceptable to Govt.) the validity of which should expire not less than one year after the scheduled date of completion of the works.

(Contd....2)

DRAFT)

From

The Secretary to Govt. of Mysore,
P.W.& Electy.Dept.

To

The Chief Engineer(North),Irrn.
Dharwar.

Sir,

I am directed that the subject of tenders for the work of construction of Almatti dam - Upper Krishna Project were discussed in the Major Irrigation Project Control Board meeting held on 14-3-70 and it was agreed that you may issue a letter of ~~interest~~ intent to the Contractors Messrs. Shah Construction Co., Ltd., asking them to commence work immediately without loosing any time. Orders regarding the acceptance of their tender will be issued shortly. ~~Meanwhile an undertaking~~ Draft) The letter to be issued by you is enclosed.
~~may also be obtained from the Contractors that their rates are unconditional(as recommended by the Technical Sub Committee). Draft letter of the undertaking to beobtained from the firm is enclosed.~~

Yours faithfully,

(S.K.Mohan),
Under Secretary to Govt.
P.W.D.(Technical).

From

The Chief Engineer,
Irrigation (North), Dharwar.

To

M/s Shah Construction Company Ltd.,
Engineers & Contractors, 198,
Church Gate, Reclamation,
Datar Road, Bombay-2.

Sir,

Sub:- Tenders for the work of construction of Almatti Dam -- Upper Krishna Project.

Ref:- Correspondence ending with your letter No. SCL/CE/II/5535 dated 12th March 1970.

With reference to the above, I am to inform you that in pursuance of the agreement reached during the negotiations your Tender for constructing Almatti Dam across Krishna River from 0 to 1573 Meters including foundation excavation, foundation treatment and all other appurtenent works is accepted ~~with~~ subject to the following conditions:-

1) All the conditions, stipulations and clarifications mentioned in the Appendix-A enclosed to your tender document are treated as withdrawn.

2) In partial modification of the provisions existing in the tender document the following ~~concessions~~ conditions are agreed to:

(a) E.M.D. equivalent to 2½ per cent of the estimated cost of the work ~~may~~ shall be given by you in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Govt.) may be furnished, ~~with~~ their validity to expire not less than one year after the date of completion of the works;

(b) Further Security Deposit may be limited to 2½ per cent of the estimated cost of the work and may be deducted from the running account bills, out of which ½ percent may be converted into Bank Guarantee or Security Bonds (acceptable to Govt.) the validity of which should expire not less than one year after the scheduled date of completion of the works.

3) Electric Power at 440 V. and at required points will be made available by the Dept., the consumption charges at bulk supply rates ~~as rates~~ as prescribed by the Mysore State Electricity Board will be deducted from ~~the~~ your ~~bulk~~ bills. ~~of the contractors.~~

p.t.o.

4, Dewatering of foundations at 80 Paise (Paise Eighty) only per hour of ~~pumping~~ capacity installed will be paid subject to a limit of Rs.3,50,000/- as mentioned below:-

per HP

× Capacity of pumps actually used

Reach-I.	Rs. 66,600
Reach-II	Rs. 2,78,000
Reach-III	Rs. [illegible],[illegible]5,400
Total:	Rs. 3,50,000

5) For the quantity of Masonry constructed using rubble stone obtained from the excavated material, ~~the~~ the quoted ~~the~~ rates ~~of the contractors~~ for the item of work will be reduced by 50 Paise (Paise Fifty) per Cubic Meter of masonry.

6) All ~~the~~ the quoted rates ~~of the contractor~~ are inclusive of costs regarding the coffer dam, and such other diversion works, ~~etc~~.

7) ~~The contractors~~ the shall insert pipes in masonry for grouting and grouting will be done through the pipes if required. This will have no effect on the tendered rates for masonry or concrete or for the grouting pipes and you will not be entitled to any extra rate or compensation on account of the same.

8) The drawings furnished along with the tender by the Dept. are only for guidance only & tentative and are ~~and are subject to the alterations~~. For all alterations in the specification and designs, the conditions mentioned in Clause-13 of the Schedule of Contract Form accompanying the tender will hold good.

× × × ⟶ (×)

Yours faithfully,

~~The contractors~~

~~Executive~~

You may please execute the necessary Agreement ~~immediately~~ as per the above conditions & return the same immediately

CE(N)

Subj: Tenders for the work of construction of Dhamtari Dam - Hippo Irrigation Project

Ref: Your letter No UKD/DLT/59 dt/ 25-2-70.

Sir,

I am directed that the subject of tenders for the work of construction of Dhamtari Dam - Hippo Irrigation Project, were discussed in the Tejas Irrigation Project control Board meeting held on 14-3-70 and it was agreed that you may issue a letter of intent to contractors, asking ~~them~~ M/s Shah Construction Co to commence work immediately without losing any time. ~~Detailed~~ orders regarding the acceptance of their tender will be issued shortly. Thereafter an ~~agreement~~ undertaking may also be obtained from the contractors that their rates are unconditional (as recommended by the Technical Sub committee. Duplicate ~~letter~~ letter of the undertaking may be obtained from the firm in advance.

Yr

US(T)

From

M/s [illegible] Construction Co Ltd

To,

C.E. (Irrigation (North))
Govt of Tripura.
Dharmanagar

Sub: Tenders for the work of construction of Dhumatti Dam — Hydroelectric Project.

Sir,

In continuation of our letter BCL/CE/11/5535 dt 12-3-70 and the discussions we had with you, we confirm that:

1. All the conditions excepting items 2,5,7(c) in our Appendix 'A' accompanying our tender letter are withdrawn.
2. The items 2,5, & 7(c) of the Appendix 'A' are accepted by the Department.
3. Our quoted rates are inclusive of all costs regarding approaches, diversion roads etc.
4. Grout holes will be inclined in the manner as directed by the department. All grouting will be done through these holes. This will have no effect on the quoted rates for measuring of concrete.
5. The drawings supplied by the department along with the tender will be only guidance, subject to alterations either over or under the quoted rates.

Yours

For [illegible] Const Co

Proceedings of the meeting of the Technical Sub Committee of the N.I.P.C.Board as it relates to Irrigation North Zone held on 13-3-1970 at 4-00 P.M. in the Chambers of the Secretary to Government, Public Works & Electy. Dept. Vidhana Soudha, Bangalore.

-:-

MEMBERS PRESENT:

1.Sri S.G.Balekundry, Chief Engineer(Irrigation) North, Dharwar.	Chairman & Convenor.
2.Sri Iftekar Ahamed, Addl.Secretary to Govt. Public Works & Electy. Dept.	Member.
3.Sri. A.K.Char, Consulting Engineer, Basavanagudi, Bangalore.	"
4. Sri N.S.Govinda Rao, Advisor, Central Board of Irrigation & Power, No.88 Diagonal Road, Vinveswarapuram, Bangalore.	"

MEMBERS ABSENT:

1. Sri P.N.Mane, Consulting Engineer, Peddar Road, Bombay. (Written comments received)	"

Subject No.1: Consideration of tenders received after negotiations for Almatti Reservoir in respect of construction of Almatti Dam, Stage I.

After considering the note supplied by the Chief Engineer, Irrigation ~~xxxx~~(North) regarding the tenders received for construction of Almatti Dam, the Committee is of the view that the tenders of Messrs.Shah Construction Co., Ltd., which are the lowest may be accepted. Shri P.N.Mane who could not attend the meeting has conveyed his view in his letter to the Chief Engineer that Messrs.Shah Construction Co's, tenders ~~should~~ may be accepted. Messrs.Continental Constructions(P)Ltd., have quoted belatedly lower than that of Messrs.Shah Construction Co., but they did not withdraw the condition for the grant of cash and machinery advance(amounting to about a crore of rupees). It appears from the note supplied by the Chief Engineer, IP(North), that even though sufficient opportunity was given to all the tenderers to withdraw their conditions, Messrs. Continental Constructions(P)Ltd., have belatedly withdrawn this condition also on 3-3-1970 i.e., after 1½ months after the negociated offers were received(on 19-1-1970).

..2

Moreover, the Chief Engineer,I.F(North) after careful verification has brought to the notice of the Committee membersthat the record of Messrs.Continental Constructions (P)Ltd., has not been satisfactory in the case of works taken by them elsewhere in other places in India and therefore it cannot be considered a very reliable firm. The Committee is of the view that even if the belated withdrawal of their conditions by Messrs.Continental Constructions be accepted, a margin of about Rs.4½ lakhs in a contract of over Rs.666 lakhs is not of sufficient consequence, in view of the unreliability of the firm.

The Committee has noted that the performance of Messrs. Continental Constructions(P)Ltd., in the case of the present tender itself is rather unethical. In the first place in the original tender itself after the tenders were opened on 24-10-1969, and it was known that they were second lowest, they came forward at a later date(on 3-11-1969) to offer a rebate of 1½% the effect of which was to make them lowest. Secondly sufficient opportunity was offered to them at the time of negotiations to withdraw their conditions by 19-1-1970, but they did not do so, a condition of advances to the extent of nearly a crore of rupees. But 1½ months later, they withdrew that condition on 3-3-1970, after knowing the fact that the Chief Engineer had not recommended their conditional offer.

While entering into an agreement with M/s Such Contr. Co. the Chief Engineer should obtain from the Contractors the following undertakings:-

1.A written undertaking shall be taken from the Contractor that the quoted rates are inclusive of all costs regarding water fee, diversion

...3

works, etc.,

2) As directed by the department, the Contractors shall insert pipes in masonry for grouting and grouting will be done through these pipes. This will have no effect on the quoted rates for masonry or concrete.

3) The tentative drawings supplied with tender by the Department are only for guidance, subject to alterations without affecting the quoted rates.

4) A final letter may be obtained from Messrs. Shah Construction Co., Ltd., to the effect that all conditions or clauses in the appendix "A" attached to their original tender are withdrawn except the clauses 2,5,7(c) which are acceptable to Government.

Subject No.2: Estimates for the construction of Almatti dam from Chainage 0 Mtr. to 1573 Mtrs. across Krishna river Stage I:—

Approval to the working estimates of Almatti dam is recommended.

(S.G. BALEKUNDRY),
Chairman & Convenor,
Technical Advisory Sub Committee
for M.I.P.C. Board.

12/3/70

SHAH CONSTRUCTION COMPANY LIMITED
ENGINEERS & CONTRACTORS

SCL/CE/II/5535 Dated, 12th March 1970.

To

The Chief Engineer, Irrigation Projects (North),
Public Works Department, Dharwar.

Sir,

Sub:- Tenders for the work of construction of Almatti Dam (all the three reaches) across Krishna River.

Ref:- Your letter No.UKP/ALM/59 dated 7-3-1970.

We have for acknowledgement your letter referred to above and thank you for the same. As desired therein our Chief Engineer would be present in Bangalore on the 13th and 14th instant for discussions with the Govt. on our tender for the above.

We confirm herewith that by Para 4 of our letter No.SCC/CE/11/5101 dated 17-1-1970 we have withdrawn all the other conditions not accepted by Govt.

Regarding Para 8 of our above letter, we have to state that this relates to clauses 1 a, b, c, 3, 4, 7 a, b, 8, 9Iv) and 12.

In Para 9 we have expressed our willingness to discuss our conditions and arrive at a mutual agreement, if the Govt. so desires.

However, we agree to deletion of Para 8 and 9 of our above letter SCC/CE/11/5101 dated 17-1-1970 but trust that this would not prevent consideration by Govt. at their discretion should an occasion arise.

We would further like to offer a rebate of ¼% (one-quarter percent) and also pay an interest at 6¼% (six and half percent) per annum, if our request for advance aggregating to six percent of the contract amount is granted. However, this is left to the discretion of Govt.

We hope we have clarified all the points and await your acceptance of our tenders.

Thanking you,

Yours faithfully,

Sd/- (P.V. Shah)
For Shah Construction Company Ltd.,

(Copy)

Kg. Amin Lonny
TA to CE (N) 13/3/70.

By Express Delivery,

Letter No. UKP/ALM/59 dated 7th March, 1970 from the Chief Engineer, Irrigation (North), Dharwar to M/s. Shah Construction Co. Ltd. 198, J. Tata Road, Bombay-20.

Sub:- Tenders for the work of constructing Almatti Dam.

Ref:- Your letter No. SCC/CE/11/5101 of 17-1-1970 addressed to this office.

Sir,

1. As per para 4 of your letter dated 17-1-1970, you have quoted 1/2 per cent (half percent) increase on your quoted rates in lieu of withdrawing all conditions not accepted by Government. But in para 8 and 9 of your letter dated 17-1-1970 you have stated that some of the clauses in Appendix 'A' relate to clarifications and intrepretations of certain matters and have requested to kindly bear this in mind. You have also stated that you are willing to discuss your conditions and other clauses and arrive at a mutual agreement which in your openion will be in the best interest of work.

2. In this connection you are requested to make it clear which are the clauses, except 2,5 and 7(c) in your opinion need clarifications and interpretations. You may communicate your clarifications and interpretations. You are also requested to be present in Bangalore for discussions with Government on 13-3-1970 and 14-3-1970 positively. Receipt of this letter may please be acknowledged.

Yours faithfully,
Sd/-
Chief Engineer, I(North).

Nk:8/3.

Sl.no 14

60

GOVERNMENT OF MYSORE.

PWD.20.GUK.69.

MYSORE GOVERNMENT SECRETARIAT,
Vidhana Soudha,
Bangalore, dated 4th March 1970.

From

The Secretary to Government,
P.W. & E. Department,

To

The Chief Engineer,
Irrigation(North),
Dharwar-1.

Sir,

Sub: Tenders for the work of constructing Almatti dam.

Ref:Your letter No.UKP/ALM/59, dated 25-2-1970.

-:-

With reference to the above, I am directed to request you to place the negociated tenders before the Technical Sub Committee of Irrigation, North Zone and forward the recommendations of the Technical Sub Committee for placing the same before the M.I.P.C.Board.

As the Board meeting is proposed to be ~~meeting~~ held on 13th, immediate action may please be taken in the matter.

Yours faithfully,

4/3/70

By Secretary to Government,
P.W.&.Electy.Dept.

svds.

ISSUED
Dated 5/3/70

SL No 13.

GOVERNMENT OF MYSORE

59

Tele gram: "CENORTH"
phone { Per: 8412
Gen: 8594

From:

THE CHIEF ENGINEER, PWD.,
IRRIGATION (NORTH),
P. B. NO : 23,
DHARWAR-1.

PWD (GI. Irrn):
No 21G/LAM/70 Date

To:

The Secretary to Govt. of Mysore,
Public Works & Elecy. Department,
Vidhana Soudha,
BANGALORE-1

No. UKP/ALM/59 Enclo: " Date: 25-2-1970

SUB: Tenders for the work of constructing Almatti Dam.

REF: Your letter No. PWD 20 GUK 69 dt. 19-2-1970.

Sir,

With reference to your first para, I have to enclose herewith the entire original tender documents along with the letters of the tenderers and also subsequent letters regarding the negotiated offers received in the 3rd week of January 1970. In paras 8 and 9 of their letter, M/s. Shah Construction Co. have made reference to some clarificatory clauses mentioned in their Appendix A which they request may be accepted in mutual interest. A copy of their Appendix A is enclosed herewith from which it will be seen that Clauses Nos. 2, 5 & 7(c) are already accepted by us during negotiations as being mutually advantageous. All other clauses in the Appendix constitute conditions which are rejected by us. If necessary, the contractor may be invited for discussion with Government and the matter finally settled, since they seem to feel some of these clauses do not constitute conditions but are only clarifications necessary in the interest of work.

2. Regarding your para No. 2, I have to inform you that the following information has been personally gathered by me which go to show that the Firm is not reliable:

(1) In partnership with M/s. Bodio Hazrath, they were doing part works at Vizag. There have been claims and counter-claims between the partners.

(2) The Firm took Rock-fill Dam costing nearly Rs. 6 crores at Obra Project in U.P. They have put up claims of nearly 4 crores and gone in for an arbitration.

(3) Even though this Firm was the lowest, the U.P. Government did not award to them two barrages at Lakhimpur costing nearly Rs. 11 crores, in view of this bad experience. They awarded the work to M/s. Hindusthan Construction Co. though the latter were much higher.

(4) The Atomic Energy Commission did not award the firm the work of Atomic Power Station at Kalpakkam, Madras, even though the firm was lowest.

P.T.O..

The tender documents and other original letters may please be returned when done with.

Yours faithfully,

(S. G. Balekundry,)
Chief Engineer, PWD, Irri. (North)

Encls:

1) Appendix (A) to M/s. Shah's Tender. 6 sheets
2) List of Tender documents. 4 "
3) Original tender documents. 22 Nos.
4) Contractor's letter
   Reach I 49 sheets
   Reach II 25 "
   Reach III 30 "
   104 sheets.
5) Contractor's letters. 13 sheets
6) Letter in original from M/s. Continental Constn. Corpn. 15 sheets & 1 drawing.

APPENDIX 'A6

Earthen Dam from OM to 405M and

STIPULATIONS AND CLARIFICATIONS RELATING TO TENDER FOR CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER NON SPILLWAY CEMENT MASONRY DAM ~~(INCLUDING POWER BLOCKS)~~ FROM CHAINAGE 405 METRES TO CHAINAGE 665 METRES INCLUDING FOUNDATION EXCAVATION, FOUNDATION TREATMENT AND ALL OTHER APPURTENANT WORKS.

1. (a) Materials - We have accounted for bulk supply of cement only. Use of cement in bags is not accounted for by us.

(b) Supply of cement and other materials under Schedule 'A' will be so arranged as to maintain the uninterrupted continuity of work.

(c) The supply rates mentioned under Schedule 'A' are taken as inclusive of all taxes and levies.

2. ✓ Electric power at 440 V. and at required points will be made available to us by the Department. The consumption charges at bulk supply rates will be borne by us.

3. (a) Escalation - The rates quoted by us are based on the prese prevailing rates of (i) materials required for and in connection with the work and (ii) labour rates prevailing on the date of submission of tender. Any variation in the basic rates or taxes will be adjusted separately. The labour escalation will be related to the Living Index for the nearest town. For the purposes of adjustment the percentage of labour will be considered as 30% of the tendered rates.

(b) Labour benefits and regulations - Any variation or new regulation in this respect will call for separate adjustment.

4. The rates quoted by us are for variation in quantities upto ± 10%. Any variation beyond this percentage will call for fixation of rates by mutual negotiations. This is in partial modification of Clause 13 (ii) of the tender.

SCHEDULE 'B' -

5. ✓ Excavation - The rates quoted by us do not include dewatering of the foundations which shall be paid for separately at Rs. 0.80 Ps. (eighty paise only) per HP hour of pumping capacity installed.

6. Drilling: Wherever redrilling is required or ordered to be carried out 50% of the rate quoted for the corresponding items will be paid.

7. (a) Masonry - The rates quoted by us for masonry items are based on the average consumption of cement specified. It is presumed that the average consumption is worked out on the basis of use of puzolana in the mortar. Solong as the actual percentage of mortar used in the masonry work is within the limits specified, the actual consumption of cement will be calculated and accounted for and the difference if any, from the one specified in the items will be adjusted separately.

Reach II

55

APPENDIX 'A6'

Spillway &

STIPULATIONS AND CLARIFICATIONS RELATING TO TENDER FOR CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER - NON SPILLWAY CEMENT MASONRY DAM (~~INCLUDING POWER BLOCKS~~) FROM CHAINAGE 665 METRES TO CHAINAGE 1363 METRES INCLUDING FOUNDATION EXCAVATION, FOUNDATION TREATMENT AND ALL OTHER APPURTENANT WORKS.

---

1. (a) Materials - We have accounted for bulk supply of cement only. Use of cement in bags is not accounted for by us.

(b) Supply of cement and other materials under Schedule 'A' will be so arranged as to maintain the uninterrupted continuity of work.

(c) The supply rates mentioned under Schedule 'A' are taken as inclusive of all taxes and levies.

2. Electric power at 440 V. and at required points will be made available to us by the Department. The consumption charges at bulk supply rates will be borne by us.

3. (a) Escalation - The rates quoted by us are based on the present prevailing rates of (i) materials required for and in connection with the work and (ii) labour rates prevailing on the date of submission of tender. Any variation in the basic rates or taxes will be adjusted separately. The labour escalation will be related to the Living Index for the nearest town. For the purposes of adjustment the percentage of labour will be considered as 30% of the tendered rates.

(b) Labour benefits and regulations - Any variation or new regulation in this respect will call for separate adjustment.

4. The rates quoted by us are for variation in quantities upto ±10%. Any variation beyond this percentage will call for fixation of rates by mutual negotiations. This is in partial modification of Clause 13 (ii) of the tender.

SCHEDULE 'B' -

5. Excavation - The rates quoted by us do not include dewatering of the foundations which shall be paid for separately at Rs. 0.80 Ps. (eighty paise only) per HP hour of pumping capacity installed.

6. Drilling: Wherever redrilling is required or ordered to be carried out 50% of the rate quoted for the corresponding items will be paid.

7. (a) Masonry - The rates quoted by us for masonry items are based on the average consumption of cement specified. It is presumed that the average consumption is worked out on the basis of use of puzolana in the mortar. Solong as the actual percentage of mortar used in the masonry work is within the limits specified, the actual consumption of cement will be calculated and accounted for and the difference if any, from the one specified in the items will be adjusted separately.

Copy

(b) For the purpose of adjustment the extra consumption of cement will be paid at Rs.230/- Rs.two hundred and thirty of per metric tonne and the rebate allowed for less consumption of cement will be Rs.180/00 per metric tonne.

(c) For the quantity of masonry constructed using rubble from the excavation our quoted rate will be reduced by Rs.-/50(fifty paise of) per m^3 of masonry.

8. Concrete: Variation in the cement consumption from that specified owing to the variation in the unit weight of concrete will be adjusted separately. For the purpose of adjustment the rates mentioned under 7 (b) above will apply.

TERMS OF PAYMENT:

9. (i) An amount equivalent to 5% of the tendered amount shall be paid to us on award of the work upon presentation of guarantee bond.

(ii) Advance on plant and equipment will be effected as under:

90% of the cost of new plant and equipment.
80% of the market value of old plant and equipment.

(iii) Recovery of the amount of advance will be made on prorata basis from R.A.Bills.

(iv) Running Bills:-Two Running Bills shall be paid every month, of which one will be an unmeasured Bill.

10. Security Deposit: Guarantee Bond to the extent of 1% of the tender value shall be submitted at the time of signing of the contract as initial security deposit. This shall be supplemented or enhanced progressively as the work progresses in lieu of each deductions from our Running Bills. The total amount of security deposit shall be limited to 2% of the estimated amount. 50% of the security deposit bonds will be released on virtual completion of the work and the balance after the expiry of maintenance period, which shall be reckoned from the date of virtual completion of the work, without reference to the payment of Final Bill of putting the works into commercial use.

11. Compensation for Delay or Liquidated Damages: The compensation shall be Rs.1000/- per day limited to 2% of the amount of unfinished work as on the date of completion, which shall taken into account all the extensions grantable from time to time. No interim deduction will be made for short-fall in the work.

12. Should the work be delayed or suspended by theGovernment for reasons whatsoever or if any damage is caused to the works, permanent or temporary as a consequence of direct or indirect water hostilities (whether war be declared or not) riot, strike, lock-outs, commotion or disorder, floods or by any act of God, we shall be adequately compensated for the loss thereof.

13. Standard "Force Majeure" & "Arbitration" Clause of 1940 shall be entered into contract upon award of the work.

Copy

for CHIEF ENGINEER.
IRRIGATION (NORTH), DHARWAR

APPENDIX 'A6

STIPULATIONS AND CLARIFICATIONS RELATING TO TENDER FOR CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER - NON SPILLWAY CEMENT MASONRY DAM (INCLUDING POWER BLOCKS) FROM CHAINAGE 1185 METRES TO CHAINABE 1573 METRES INCLUDING FOUNDATION EXCAVATION, FOUNDATION TREATMENT AND ALL OTHER APPURTENANT WORKS.

- - - -

(b) For the purpose of adjustment the extra consumption of cement will be paid at Rs.230/- Rs.two hundred and thirty of per metric tonne and the rebate allowed for less consumption of cement will be Rs.180/00 per metric tonne.

(c) For the quantity of masonry constructed using rubble from the excavation our quoted rate will be reduced by Rs.-/50(fifty p of) per m^3 of masonry.

8. Concrete: Variation in the cement consumption from that specified owing to the variation in the unit weight of concrete will be adjusted separately. For the purpose of adjustment the rates mentioned under 7 (b) above will apply.

TERMS OF PAYMENT:

9. (i) An amount equivalent to 5% of the tendered amount shall be paid to us on award of the work upon presentation of guarante bond.

(ii) Advance on plant and equipment will be effected as under:

90% of the cost of new plant and equipment.
80% of the market value of old plant and equipment.

(iii) Recovery of the amount of advance will be made on prorata basis from R.A.Bills.

(iv) Running Bills:-Two Running Bills shall be paid every month, of which one will be an unmeasured Bill.

10. Security Deposit: Guarantee Bond to the extent of 1% of the tender value shall be submitted at the time of signing of the contract as initial security deposit. This shall be supplemented or enhanced progressively as the work progresses in lieu of each deductions from our Running Bills. The total amount of security deposit shall be limited to 2% of the estimated amount. 50% of the security deposit bonds will be released on virtual completion of the work and the balance after the expiry of maintenance period which shall be reckoned from the date of virtual completion of the work, without reference to the payment of Final Bill of putting the works into commercial use.

11. Compensation for Delay or Liquidated Damages: The compensation shall be Rs.1000/- per day limited to 2% of the amount of unfinished work as on the date of completion, which shall taken into account all the extensions grantable from time to time. No interim deduction will be made for short-fall in the work.

12. Should the work be delayed or suspended by theGovernment for reasons whatsoever or if any damage is caused to the works, permanent or temporary as a consequence of direct or indirect water hostilities (whether war be declared or not) riot, strike, lock-outs, commotion or disorder, floods or by any act of God, we shall be adequately compensated for the loss thereof.

13. Standard "Force Majeure" & "Arbitration" Clause of 1940 shall be entered into contract upon award of the work.

Copy

by

CHIEF ENGINEER,
IRRIGATION (NORTH), DHARWAR.

UPPER KRISHNA PROJECT
ALMATTI DAM.

Tender for constructing Almatti Dam across Krishna River Earthen Dam from Ch: 0 Meter to Chainage 405 M and Non-Spillway dam from Ch.405 to 665 M.

REACH I

LIST OF DOCUMENTS.

Sl. No.	Name of contractor.	No.of Tender documents (booklets) submitted by the contractor.	No.of letters & enclosures in original as submitted by the contractor.	Remarks.
1	2	3	4	5
1)	SHAH. Construction Co,Ltd., Bombay.	1	10 Nos.	
2)	Sri.G.J.Fernandez Secundarabad.	1	3 Nos.	
3)	Sri.Shankar Narayan Construction Co., Bangalore.	1	2 Nos.	
4)	Mysore State Construction Corporation Bangalore.	1	1 No.	
5)	Sri.V.Subba Rao,Contractor Vijayawada.	1	3 Nos.	
6)	Hindustan Construction Co, Bombay.	1	11 Nos.	
7)	Continental Construction Private Ltd, New Delhi.	1	Booklet containing 19 sheets (for all the three reaches.	
		7 Booklets	49 sheets.	

K.G. Shrinivasamurthy
23/11/70.

ssh/25-2.

for CHIEF ENGINEER,
IRRIGATION (NORTH). DHARWAR.

UPPER KRISHNA PROJECT.
ALMATTI DAM.

Tender for constructing Almatti Dam across Krishna river Spillway cement Masonry Dam from Ch.665 to 1363.5 M.

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REACH II.

Sl No.	Name of contractor.	No.of Tender documents (Booklets) submitted by the contractor.	No.of letters & enclosures in original as submitted by the contractor.	Remarks.
1)	SHAH.Construction Co., Ltd, Bombay.	1	9 Nos.	
2)	Sri.Shankar Narayan construction Co, Bangalore.	1	5 Nos.	
3)	Mysore State Construction Corporation Ltd, Bangalore	1	1 No.	
4)	National projects construction Corporation Ltd., Delhi.	1	10 Nos.	
5)	Continental construction Co., Bombay.	1	--	(One booklet of enclosure with reach I documents.
6)	Hindustan Construction Private Ltd,	1	--	-do-
		6 Nos.	25 Sheets	

ssh/25-2-

for CHIEF ENGINEER,
IRRIGATION (CENTRAL), DHARWAR

UPPER KRISHNA PROJECT.
ALMATTI DAM.

Tender for constructing Almatti Dam across Krishna River Non-Spillway Cement Masonry Dam from ch.1363.50 to 1573.00 Metres.

REACH.III.

Sl. No.	Name of Contractors.	No.of tender documents (Book-let) submitted by the contractor.	No.of letters and enclosures in original as submitted by the contractors.	REMARKS.
1	2	3	4	5
1)	Shah Construction Co., Ltd., Bombay.	1	4Nos.	
2)	National Project Construction Co.,	1	11 Nos.	
3)	Shri.Shankar Narayan Construction Co.,	1	2 Nos.	
4)	Shri.V.Subba Rao	1	3 Nos.	
5)	Mysore State Construction Corporation.	1	1 No.	
6)	G.J.Fernandiz,	1	3 Nos	
7)	Hindustan Construction Co.,	1	6 Nos.	
8)	Continental Construction Co.,	1	-	(enone booklet of enclosures with reach I.
9)	Shri.R.N.Setty,Contractor,	1	-	Nil.

K.G. Srinivasan
CHIEF ENGINEER (IRRIGATION (NORTH). DHARWAR.

ssh/25-2-

LIST OF ORIGINAL LETTERS RECEIVED FROM FIRMS IN 3rd WEEK OF JANUARY 70. IN RESPECT OF TENDERS OF AIMATTI DAM

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			No. of sheets.
(A)	1)	Letter No.SCC/CE/11/5101 dt: 17-1-70 from M/s.Shah Ltd.	Two sheets with cover.
	2)	Letter No.135/8 dt: 17-1-70 from M/s.Continental Pvt. Ltd.	One sheet with cover.
	3)	Letter No.BG/CE/165/69-70 from M/s. Shankar Narayana Construction Co., Ltd. Bangalore.	One sheet & one Cover
	4)	One Telegram dated: 19-1-70 from ENESCICI , Bangalore.	One sheet.
	5)	One Telegram dated 16-1-70 from Sri.Fernandez.	One sheet.
	6)	One Telegram dated 16-1-70 from M/s. GANDHI Hincon.	One sheet.
	7)	Letter from V.Subba Rao dated 15-1-70	One sheet.
	8)	-do- dt 19-1-70	One sheet with cover.
	9)	Letter from Sri.G.J.Fernandez dated: 16-1-70	Two sheets with cover.
	10)	Letter from Sri.R.N.Shetty, dated: 17-1-70	One sheet with cover
	11)	Letter from M/s.N.P.C.C.Ltd.,New Delhi No.799945 dt: 16-1-70	One sheet with cover.
		TOTAL:	Thirteen sheets.

(B) Letter from M/s continental Company Pvt Ltd. dated 3.11.69 fifteen (15) sheets & one drawing

xxxxxxxx
xxxxxx
xxxx

Ksd.

K.G. Srinivasaiya
CHIEF ENGINEER (IRRIGATION) ... RWA

Sl No 12

GOVERNMENT OF MYSORE

47

No. PWD 80 GUK 69

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,
Dated, Bangalore, 19th Feb 70 196

FROM

The *Secretary to the Government of Mysore*
Public Works & Elecy.Department,

To

The Chief Engineer, Irrigation(North)
Dharwar.

Sir,

Sub: Tenders for the work of constructing Almatti Dam.

Ref: Your Letter No.UKP/ALM/TND/59/dated 23rd Jan 1970.

I am directed to request you to intimate the exact implications of the paragraphs 8 and 9 of the letter dated 17th Jan 1970 of Messrs. Shah Construction Company, addressed to you which has been enclosed with the letter cited above. Further, I am also to request you to forward the entire tender documents along with the letters of the tenderers accompanying the tenders.

Further, I am also directed to request you to clarify the basis for the statement made in the last sentence of paragraph 3 of your letter cited above with regards to M/S Continental Construction Limited. An immediate reply in the above matter is requested, so that the tenderers' papers could be processed immediately and place before the Technical Sub-Committee of the M.I.P.C. Board and ~~the~~ before the TIPC Board some time at the close of the next week.

Yours faithfully,

Recd Dated 19/2/70

(S.K.MOHAN)
Under Secretary to Government,
Public works and Elecy.Department,

MNV/

PWD 20-4-UK-69

To

The CE I P (N) Dharwar.

Sir,

Sub :- As at Sl No 11

With to the Correspondence Resting with your letter No UKP/AIM/TND/59 dated 23.1.70 on the above subject, I am directed to request you to intimate the implications of paras 9 and 10 of ~~the~~ your letter No SCC/CE/11.1/5101 dated 12.1.70 of M/s Shah Construction Co, ~~LTD~~ Bombay addressed to ~~the CE I P (N) Dharwar~~ you.

An early reply is requested.

Yours faithfully,

for US(T)

18/2/70.

Proforma issued

	I.	II	III	Net amount after deducting rebate
1) M/s Shah Constructions Company.	240,46,978 ~~241,35,596~~	389, ~~69,548 647,280~~	36,32,665 ~~36,67,452~~	6,66,54,191 - 6.67 %
2) M/s Continental Constructions Pvt	~~237,70,302 240,71,192~~	~~342,87,796~~ 387,96,699	~~36,73,759~~ 36,27,837	6,61,94,838 - 7.30 %
3) M/s V. Subbarao. Vijayawada.	268,94,642	Not quoted.	39,11,013	
4) M/s Hindustan Constructions Co	303,99,362.	447,09,028,	46,36,422	
5) M/s G.J. Fernandes.	363,50,011.	Not quoted.	40,38,259.	
6) M/s. R.N. Shetty. Sirsi.	Not quoted.	Not quoted.	44,82,167.	
7) M/s. Shankar Narayan Constructions Company. Bangalore	278,48,367.	457,91,412.	43,49,050.	
8) M/s. Mysore State Constructions Corporation Ltd	270,44,488.	442,03,781.	40,74,407.	
9) M/s. ~~N.P.C.C. New Delhi~~	~~Not quoted~~	~~421,60,012,~~	~~41,92,012~~	

Sl No 11

GOVERNMENT OF MYSORE

Telegram: "CENORTH"
Telephone (Per: 8412, Gen: 8594)

From:
THE CHIEF ENGINEER, PWD.,
IRRIGATION (NORTH),
P. B. NO : 23,
DHARWAR-1.

To:
The Secretary to Government of Mysore,
Public Works & Electricity Department,
Vidhana Soudha, BANGALORE-1

No. UKP/ALM/TND/59 Enclo: 1 Comp. Stt. 3 Letters Date: 23 JAN 1970

389

SUB: Tenders for the work of constructing Almatti Dam (all the three reaches) across river Krishna.

REF: Your letter No. PWD 20 GUK 69 dated 3rd Jan. 1970.

Sir,

With reference to your letter dated 3-1-1970, I write to state that out of 9 tenderers who participated in the tenders received on 24-10-1969, five Firms had quoted with conditions and remaining four without conditions. Hence all the nine Firms were separately addressed by this office on 7-1-1970 intimating the two concessions Government wished to extend in regard to Earnest Money Deposit and Security Deposit as follows:-

(1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Govt.) with the validity to expire one year after the date of completion of work, and

(2) Further Security Deposit may be limited to 2½% to be deducted from the Running Account bills out of which ½% may be converted into a Bank Guarantee or Security Bonds (acceptable to Govt.) the validity of which to expire one year after the date of completion of the works.

The five firms who had originally tendered conditionally, were asked to withdraw all conditions put forth in the tender except some of their minor conditions which in the opinion of Government were not of a substantial nature (these were enumerated in an Annexure) and they were requested to submit their re-quotation of percentage premium in lieu of withdrawing their conditions. The other four contractors who had quoted unconditionally, were requested to submit their requotation of percentage rebate in view of the two concessions in regard to Earnest Money and Security Deposits. The re-quotations were received on 19-1-70 along with their consent to keep open their offer for a further period of 3 months from 24-12-1969.

2. Except M/s. Hindustan Construction Co. Ltd. Bombay, who have not agreed to extend the validity of the tenders beyond 24-12-1969, all the other 8 tenderers have agreed to keep their offer open and have responded to our office letter. The results of their requotations are tabulated in the accompanying Comparative statement.

p. t. o..

43

3. M/s. Continental Construction Co. Pvt. Ltd. had originally quoted with a number of unacceptable conditions. As already reported they offered 1½% rebate belatedly on 3rd November 1969 in case of entrusting all the 3 works. In response to our present negotiations, they have offered to do the work at their originally quoted rates and inclusive of belated rebate of 1½%, but still insisting upon their original demand for advances of (i) Rs. 40 lakhs cash and (ii) 90% of cost of machinery. The two advances together may come to very nearly a crore of rupees. Their apparent offer comes to Rs. 6.62 crores or 7.3% lower than the estimate. However since their offer is not in accordance with our terms and is conditioned by a heavy advance of nearly a crore of rupees, their offer is not acceptable. In any case the party is not considered reliable as already reported and their offer is recommended to be totally rejected.

4. M/s. Shah Construction Co. Ltd. Bombay have withdrawn all their conditions except minor ones acceptable to Government. They have demanded a premium of ½% on their originally quoted rates. Their net offer as now evaluated stands at Rs. 6,66,54,191/ for all the 3 reaches at 6.67% below estimate and they are the lowest acceptable. The copies of this office letter No. UKP/ALM/59/69-70 dated 7-1-1970 & 15-1-70 addressed to the Firm and their reply are enclosed herewith

5. The positions of other contractors are as shown in the comparative statement attached. Therefore the offers of M/s. Shah Construction Co. Bombay being the lowest acceptable of the lot for all the 3 reaches, are recommended for acceptance.

6. Since nearly half the working season is already over, early approval to the above proposals is solicited so that the work can be put on hand within this working season itself.

Yours faithfully,

(S. G. BALEKUNDRY,)
Chief Engineer, PWD, Irrigation (North)
23/1/70

Copy to Supdg. Engr., U.K.P. Circle, Almatti, for information.

GOVERNMENT OF MYSORE, P.W.D.

Comparative Statement for the tenders of Almat

Sl. No.	Name of the firm.	Reach No.	Estimated cost.	Amount based on tender rates.	Acceptable conditions of the Contractor	
1	2	3	4	5	6	7
					Dewatering charges at Rs.0-80/HP/hour of pumping capacity ceiling out to Rs.3.5 lakhs	Rebate due to useful material at 0-50/Cum of built masonry out of it.
1)	M/s.Shah Construction Company.	I	254,41,426	241,35,596	+ 66,600	-33,333
		II	419,70,426	389,84,230	+2,78,000	-95,812
		III	39,97,033	36,67,452	+ 5,400	-16,666
		Total:	714,08,885	667,87,278	+3,50,000	1,45,811
2)	M/s. Continental Construction Pvt. Ltd.	I	254,41,426	240,71,198		
		II	419,70,426	392,87,796		
		III	39,97,033	36,73,759		
			714,08,885	670,32,747		
3)	M/s.V.Subba Rao, Vijayawada	I	254,41,426	268,94,642		
		II	419,70,426	Not quoted		
		III	39,97,033	39,11,013		
			714,08,885			
4)	M/s.Hindustan Construction Company.	I	254,41,426	303,99,362		
		II	419,70,426	447,09,028		
		III	39,97,033	46,36,422		
			714,08,885	797,44,812		
5)	M/s. G.J. Fernandez Secundarabad	I	254,41,426	363,50,011		
		II	419,70,426	Not quoted		
		III	39,97,033	40,38,259		
			714,08,885			
6)	M/s. R.N. Shetty Sirsi	I	254,41,426	Not quoted		
		II	419,70,426	Not quoted		
		III	39,97,033	44,82,167		
			714,08,885			

Dam after receipt of Negotiated rates from various Contractors.

ecial bate ferdif e works all 3 aches are given.	Percentage premium now quoted for withdrawing all conditions.	Percentage rebate now quoted for reduced % of security deposit.	Net Amount	Remarks.
8	9	10	11	12
rebate	1/2% rebate after deduction of special rebate.			
,41,356	₹1,19,471	-	2,40,46,978	
,89,842	₹1,92,972	-	3,89,69,548	
36,675	₹ 18,154	-	36,37,665	
			6,66,54,191	
			-6.67%	
6 rebate.				The conditions of advance not withdrawn. Therefore rejected.
,00,890	-	-	2,37,70,302	
,91,097	-	-	3,87,96,699	
45,922	-	-	36,27,837	
			6,61,94,838	
			-7.30%	
		1/2% rebate		
	-	-1,34,473	2,67,60,169	
	-	-	- ₹5.17%	
	-	- 9,777	39,01,236	
		1/4% rebate.	-2.45%	
	-	-	-	The firm has expressed its inability to keep open its offer of validity of tender for further three months period.
	-	-	-	
	-	-	-	
		1½% rebate		If both reaches are given 1/2% rebate. Net amount
	-	-3,95,250	2,59,54,761	-1,31,750 2,58,23,011
	-	-	₹2.06%	₹1.48%
		-2,01,815	38,26,344	- 20,192 38,06,152
		(at 5% rebate)	-4.26%	-4.78%
	-	-	-	
	-	-	-	
	-	-	44,82,167	
			₹12.11%	

.....2

1	2	3	4	5	6	7
7)	M/s.Shankar -Narayana Construction Company, Bangalore.	I	254,41,426	278,48,367		
		II	419,70,426	457,91,413		
		III	39,97,033	43,49,050		
			714,08,885	779,88,830		
8)	M/s.Mysore State Construction Corporation Ltd.Bangalore	I	254,41,426	270,44,488		
		II	419,70,426	442,03,781		
		III	39,97,033	40,74,407		
			714,08,885	753,22,676		
9)	M/s. NPCC., New Delhi.	I	254,41,426	Not quoted		
		II	419,70,426	421,60,012		
		III	39,97,033	41,92,625		
			714,08,885			

The offers of M/s. Shah Construction Company Ltd. Bombay together being lowest among all the tenders and percenta

sfk/23.1

8	9	10	11	12
rebate		(7% rebate)		
78,484	-	-19,49,386	2,56,20,497	
57,914	-	-32,05,399	4,21,28,100	
43,490	-	- 3,04,434	40,01,126	
			7,17,49,723	
			+0.48%	
		3% rebate for all the three reaches.		1% rebate if each reach is considered / Net amount of each reach.
	-	-8,11,335	2,62,33,153	-2,70,445 / 2,67,74,043
	-	-1326,104	4,28,77,677	-4,42,038 / 4,37,61,743
	-	-1,22,235	39,52,172	- 40,745 / 40,33,662
			7,30,63,002	
			+2.32%	
		(2% rebate)		
	-	-	-	Conditions of advance is
	-	-8,43,200	4,13,16,812	put in for Rs.8 lakhs.
			-1.56%	
	-	- 83,852	41,08,773	
			+2.80%	

ounting to Rs. 6,66,54,191 for all the three reaches considering.
premium being 6.67% below estimate are recommended for acceptance.

Chief Engineer, P.W.D.,
Irrigation (North),
Dharwar.

40

No.UKP/ALM/59/1969-70 Dt: 7 JAN 1970

To

1) M/s. Shah Construction Co. Ltd.,
198, J.Tata Road, Bombay-20.

2) " Mysore State Constn.Corporation Ltd.,
Jayamahal Extension, Bangalore-6.

3) " Hindustan Construction Company,
Ballard Estate, Bombay-1.

4) " M.P.C.C.Ltd.
Defence Colony, New Delhi-1.

5) " Continental Construction Pvt.Ltd.
E-11, Defence Colony, Ring Road,
New Delhi-3.

Dear Sirs,

Sub:- Tender for the work of constructing Almatti Dam (all the three reaches) across Krishna River.

Ref:- Your tender for the different reaches of Almatti Dam across Krishna River, 24-10-69 being the last date for receipt of them.

Your conditional tenders are not acceptable to Government and therefore all conditions put forth in the tender by you are to be withdrawn except the enclosed conditions which in the opinion of Government are not of a substantial nature with some modifications (vide Annexure).

2. Considering the huge amount involved in the form of security deposit the Government is ready to extend the following concessions as far as Earnest Money Deposit and Security Deposit are concerned:

i) 2½% Earnest Money Deposit may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (Acceptable to Govt.) with validity to expire one year after the date of completion of the works.

ii) Further Security Deposit may be limited to 2½% to be deducted from the R.A. bills out of which ½% may be converted into a bank guarantee or security bonds (acceptable to Govt) the validity of which to expire one year after the date of completion of the work.

3. In view of the above two concessions you are hereby requested to inform this office within 27-1-1970 about your willingness to undertake the execution of the above cited works at your already quoted rates, withdrawing all your conditions and accepting the two concessions in Earnest Money Deposit and Security Deposit, the Govt. is ~~in~~ proposing to offer, as quoted in para 2 of this letter.

4. In case you are desirous of enhancing the rates in view of your conditions being unacceptable, you are requested to quote the percentage premium over your original quoted rates taken together with the percentage rebate if any, quoted by you on 24-10-1969 for entrusting all the three reaches.

5. You are also requested to communicate your willingness

/PTO

to keep open your offer for a further period of three months from 24-12-1969.

P.S: The reply should be in a sealed cover with a caption "requotations for Almatti Dam" and will be opened on 28-1-1970 at 11.00 A.M. in the presence of Contractors who may be present on that day.

Yours faithfully,

Sd/-
Chief Engineer, I(N)

Copy

for CHIEF ENGINEER, P. W. D.
IRRIGATION (NORTH), DHARWAR

ANNEXURE

Conditions which in the opinion of Government are not of substantial nature out of those quoted by M/s. Shah Construction Company Ltd. Bombay.

2) "Electric power at 440 V. and at required points will be made available to us by the Department. The consumption charges at bulk supply rates will be bourn by us"

Schedule B:

5) Excavation - "The rates quoted by us do not include dewatering of foundations which will be paid for seperately at Rs. 0-80 paise (eighty paise only) per HP hour of pumping capacity installed."

Subject to a limit of Rs. 3,50,000 as mentioned below -

Reach I	Rs. 66,600
Reach II	Rs.278,000
Reach III	Rs. 5,400
	Rs.3,50,000

7(c) "For the quantity of masonry constructed using rubble from the excavation our quoted rate will be reduced by Rs. 0-50 (fifty paise) per M^3 of masonry"

Sd/-
for Chief Engineer, P.W.D.,
Irrigation (North),

'Copy'

CHIEF ENGINEER.
IRRIGATION (NORTH) DHARWAR

PHONOGRAM DATED: 15th Jan. 1970

1) M/s. Veeramachenani Subbarao, Congress Office Road, Vijayawada-2.

2) M/s. R.N. Shetti, Engineers and Contractors, Hubli-22.

3) M/s. G.J.Fernandez 142/A Prederghast Road, Secunderabad (A.P.)

4) M/s. Shankara Narayana Construction Co. No.7 Presidency Road, Bangalore-25.

5) M/s. Shah Construction Co. Ltd. 198, J. Tata Road, Bombay-20.

6) M/s. Mysore State Construction Corporation Ltd. Jayamahal Extension, Bangalore-6.

7) M/s. Hindustan Construction Company, Bellard Estate, Bombay-1.

8) M/s. N.P.C.C. Ltd. Defence Colony, New Delhi-3.

9) M/s. Continental Construction P. Ltd. E-11, Defence Colony, Ring Road, New Delhi-3.

REMLET UKP/ALM/59/1969-70 DATED 7-1-1970 STOP FURNISH REQUOTATIONS ON OR BEFORE NINETEENTH STOP THEY WILL BE OPENED ON TWENTIETH AT ELEVEN A.M.

CENORTH

(Not to be telegraphed) Sd/-
for Chief Engineer, Irr. (North),

No.UKP/ALM/59/1969-70 dt/15 JAN 1970

Copy in confirmation of the above is forwarded to -

1) M/s. Veeramachenini Subbarao, Congress office Road, Vijayawada-2.
2) M/s. R.N.Shetti, Engineers & Contractors, Hubli-22
3) M/s. G.J.Fernandez 142/A Prederghast Road, Secunderabad
4) M/s. Shankara Narayana Construction Co. No.7 Presidency Road, Bangalore-25
5) M/s. Shah Construction Co. Ltd. 198, J. Tata Road, Bombay-20
6) M/s. Mysore State Construction Corporation Ltd. Jayamahal Extension, Bangalore-6.
7) M/s. Hindustan Construction Co. Bellard Estate, Bombay-1
8) M/s. N.P.C.C. Ltd. Defence Colony, New Delhi-3.
9) M/s. Continental Construction Pvt. Ltd. E-11, Defence Colony, Ring Road, New Delhi-3.

In this office letter No. UKP/ALM/59/1969-70 of 7-1-70 it was asked to furnish the requotations on or before 27-1-70 and they were going to be opened on 28-1-1970. But now you are requested to furnish these requotations to reach this office on or before 19-1-1970, within 5-30 P.M. They will be opened on 20-1-1970 at 11 A.M.

Sd/-
for Chief Engineer, Irr. (North),

'Copy'

for CHIEF ENGINEER,
IRRIGATION (NORTH), DHARWAR

Copy of letter No.SCC/CE/11/5101 dated 17th January 1970 from the Chief Engineer, Shah Construction Company Limited Engineers & Contractors addressed to the Chief Engineer, Irrigation (North), Dharwar.

37

Sub:-Tender for the work of construction of Almatti Dam (all the three reaches) across Krishna River.

Ref:-Your letter No.UKP/ALM/59/1969-70 dated 7-1-1970.

...

We acknowledge with thanks the receipt of your above letter and referring to the same we have to inform you as under:-

1 We have noted the conditions mentioned in the annexure accompanying your above letter as acceptable to Government.

3 The concessions, as compared with tender provisions, now offered by the Government in respect of Earnest Money and Security Deposit are also noted. However, we believe that these provisions are still more severe compared with major contracts elsewhere.

4 We would require an increase of ½% (half per cent) on our quoted rates-after accounting for the percentage of rebate offered on 24-10-1969 for all the three Reaches taken together for withdrawing our other conditions.

5 If our condition of security deposit is accepted, we would require an increase of only ¼% (one-quarter per cent) against ½%(half per cent)mentioned above.

6 We are willing to keep our offer open for a further period of 3 months from 24-12-1969.

7 We would however, like to observe that work of this nature and magnitude does require a large initial capital outlay for speedy and successful execution of the same. We are prepared to pay interest on the amount so advanced.

A 8 You will also appreciate that in our Appendix 'A' accompanying our tender letter, some of the clauses relate to clarifications and interpretations of certain matters. We therefore, request that these may kindly be borne in mind.

B 9 Further, we are also willing to discuss our conditions and other clauses and arrive at a mutual agreement, which in our opinion, will be in the best interest of the work.

10 We trust our offer will be found acceptable and place ourselves at your disposal for any further information that may be required of us.

Thanking you,

Yours faithfully

Sd/-
Chief Engineer
for Shah Construction Co.Ltd.,

'Copy'

rln/23-1.

K.G. Amirthraj 23/1/70
CHIEF ENGINEER.
IRRIGATION (NORTH). DHARWAR.

23/1/70

Sl.No 10

GOVERNMENT OF MYSORE

36

No. PWD 20 GUK 69.

MYSORE GOVERNMENT SECRETARIAT
VIDHANA SOUDHA,

Dated, Bangalore,....3-1-.... 1970

FROM

Secretary to the Government of Mysore
Public Works & Elecy.Department, Bangalore.

To The Chief Engineer,
Irrigation Projects,(North),
DHARWAR.

Sir,

Sub:- Tenders for the work of constructing Almatti Dam (all three reaches) across Krishna River.

Ref:- Letter No.UKP/CEN/ALM/59 dated 2-12-1969.

With reference to the above and in continuation of the discussions in the Major Irrigation Projects Control Board Meeting held on 18-12-1969 (copy of the proceedings enclosed), I am directed to inform you tht negotiations may be conducted with all the Tendered Contractors offering the following two conditions:-

1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the Validity to expire one year after the date of completion of the works.

2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a Bank Guarantee or Security Bonds acceptable to Government) the validity of which to expire one year after the date of completion of the works.

3) All other conditions putforth in the Tender to be withdrawn except such conditions which in the opinion of Govt. are not of a substantial nature.

The result of negotiations conducted with all the Contractors by offering the above conditions may be reported to Government immediately.

In case, if favourable offers are not received for the negotiations conducted with the above conditions fresh Tenders may have to be called for by offering the following conditions:-

1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds(Acceptable to Government) with the validity to expire one year after the dte of completion of the works.

2) Further Security Deposit may be remitted to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a Bank Guarantee or Security Bonds (Acceptable to Government) the Validity of which to expire one year after the date of completion of the works.

3) Payment of total cash Advance of Rs. 10 lakhs (distributed in proportion to cost of each reach) against Bank Guarantee or Security Bonds acceptable to Government with interest at 6% per annum which should be recovered in the Running Bills of the Contractors as follows:-

(a) For the first 10 months after the commencement of the work, no recovery.

(b) Beyond 10 months the recovery is to be effected at the rate of about 3% of the Cash Advance plus accrued interest in the monthly running bills. In any case, the entire advance together with accrued interest should be recovered one year prior to the date of completion as stipulated in the Tender.

4) 15 lakhs total cash Advance with interest at 6% per cent per annum be made against the hypothecation of Machinery 90% of value of new machinery and 75% of value of old machinery brought to site for all the three reaches distributed in proportion to cost of each reach. The Advance will be recoverable as follows:-

(a) For the first 10 months no recovery.

(b) Beyond 10 months, the recovery is to be effected at the rate of about 3% of the Cash Advance plus the accrued interest thereon in the Running Bills of the Contractors, subject to the entire amount being recovered one year earlier than the agreed period for the completion of the work.

5) The rates quoted for excavation should be exclusive of dewatering of foundations which shall be paid for separately at Rs. 0.80 (eighty paise only) per horse power per hour of pumping subject to the ceiling of 3.50 lakhs as distributed below:-

Reach I	Rs.	66,600/-
Reach II	Rs.	2,78,000/-
Reach III	Rs.	5,400/-
	Total Rs.	3,50,000/-

6) For the Quantity of Masonry constructed using Rubble from the excavation the accepted tender rates will be reduced by Rs. 0-50 (Fifty Paise only) per cubic Metre of Masonry.

Immediate action may be taken on the above lines.

Yours faithfully,

3/1/70.

(M.Channappa),
Deputy Secretary to Government,
Public orks & Elecy.Department.
(Irrigation).

Dated 3/1/70

O/e

Draft.

No.PWD 20 GUK 69

To

The C.E. IP.(North), Dharwar.

Sir,

Sub:- Tenders for the work of constructing Almatti Dam (all three reaches) across Krishna River.

Ref:- Letter No.UKP/CEN/ALM/59 dt.2-12-69.

With reference to the above and in continuation of the discussions in the M.I.P.C. Board Meeting held on 18-12-1969 (copy of the Proceedings enclosed), I am directed to inform you that negotiations may be conducted with all the Tendered Contractors offering the following two conditions:-

1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Govt.) with the Validity to expire one year after the date of completion of the works.

2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a Bank Guarantee or Security Bonds (acceptable to Govt.) the validity of which to expire one year after the date of completion of the works.

3) All other conditions putforth in the Tender to be withdrawn except such conditions which in the opinion of Govt. are not of a substantial nature.

The result of negotiations conducted with all the Contractors by offering the above conditions may be reported to Govt. immediately.

In case, if favourable offers are not received for the negotiations conducted with the above conditions fresh Tenders may have to be called for by aff offering the following conditions:-

1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Govt.) with the validity to expire one year after the date of completion of the works.

2) Further Security Deposit may be remitted to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a

p.t.o.

Bank Guarantee or Security Bonds (acceptable to Govt.) the Validity of which to expire one year after the date of completion of the works.

3) Payment of total Cash Advance of Rs.10 lakhs (distributed in proportion to cost of each reach) against Bank Guarantee or Security Bonds acceptable to Govt. with interest at 6% per annum which should be recovered in the Running Bills of the Contractors as follows:-

(a) for the first 10 months after the commencement of the work, no recovery.

(b) Beyond 10 months the recovery is to be effected at the rate of about 3% of the Cash Advance Plus accrued interest in the monthly running bills. In any case, the entire advance together with accrued interest should be recovered one year prior to the date of completion as stipulated in the Tender.

4) 15 lakhs total Cash Advance with interest at 6% per cent per annum be made against the hypothecation of Machinery - 90% of value of new machinery and 75% of value of old machinery brought to site for all the three reaches distributed in proportion to cost of each reach. The Advance will be recoverable as follows:-

(a) For the first 10 months no recovery.

(b) Beyond 10 months, the recovery is to be effected at the rate of about 3% of the Cash Advance plus the accrued interest thereon in the Running Bills of the Contractors, subject to the entire amount being recovered one year earlier than the agreed period for the completion of the work.

5) The rates quoted for excavation should be exclusive of dewatering of foundations which shall be paid for separately at Rs.0-80 (Eighty Paise only) per horse power per hour of pumping subject to the ceiling of Rs.3.50 lakhs as distributed below:-

Reach I	--	Rs. 66,600/-
Reach II	--	Rs. 2,78,000/-
Reach III	--	Rs. 5,400/-
	Total:	Rs. 3,50,000/-

6) For the Quantity of Masonry constructed using Rubble from the excavation the accepted tender rates will be reduced by Rs.0-50 (Fifty Paise only) per cubic Metre of Masonry.

Immediate action may be taken on the above lines.

Yours faithfully,

24/1/70

D.S., PWD (Irrgn).

cn/

SLNO 9

37

PROCEEDINGS OF THE 33RD MEETING OF THE MAJOR IRRIGATION PROJECTS CONTROL BOARD HELD ON 18-12-1969 AT 4-30 P.M. IN THE CHAMBERS OF THE CHIEF MINISTER, GOVERNMENT OF MYSORE, BANGALORE.

MEMBERS PRESENT:

SHRIYUTHS:

1) Veerendra Patil, Chief Minister, Government of Mysore, Bangalore. -- CHAIRMAN.

2) D. Parameswarappa, Deputy Minister for Major Irrigation and Electricity. -- VICE-CHAIRMAN.

3) Iftekhar Ahmed, Additional Secretary to Govt., P.W. & E. Dept., Bangalore. -- MEMBER.

4) Mani Narayanaswamy, Secretary to Govt., Finance Dept., Bangalore. -- -do-

5) K. Basanna, Chief Engineer, Irrigation Projects (South), Bangalore. -- -do-

6) S.G. Balekundry, Chief Engineer, Irrigation Projects (North), Dharwar. -- -do-

7) M.V. Aswathanarayana Setty, Chief Engineer, Investigation of Hydro Electric and Irrigation Projects, Bangalore. -- -do-

8) N.G. Gorepeerzade, Deputy Secretary to Govt., representing D.H.P.C. Dept., Bangalore. -- -do-

9) M. Channappa, Deputy Secretary to Govt., P.W.D. (Irrigation). -- SECRETARY.

MEMBERS ABSENT:

1) Dr. Arakeri, Director of Agriculture in Mysore, Bangalore. -- MEMBER.

2) Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation and Power, Bangalore. -- -do-

---

SUBJECT NO.1:- CONFIRMATION OF THE PROCEEDINGS OF THE 32ND MEETING OF THE M.I.P.C. BOARD HELD ON 9-12-1969.

"C O N F I R M E D".

SUBJECT NO.2:- Consideration OF TERMINATION OR OTHERWISE OF THE CONTRACT OF -

(a) Shri Mariswamappa, for the work of Hemavathy Right Bank Earth Dam from Ch.5720' to 7890'.

(Contd...2)

(b) Shri V.C. Khanna, for the work of Hemavathy Left Bank Earth Dam from Ch. 2920' to Ch. 5020'.

The M.I.P.C. Board during its Meeting held on 9-12-1969 had directed the Technical Sub-Committee of the M.I.P.C. Board to - meet again and to conduct negotiations with the Contractors - M/s Mariswamappa and Company, and M/s V.C. Khanna and Company, and place their recommendations before the M.I.P.C. Board for further consideration.

In pursuance of the above, the Technical Sub-Committee met on 18-12-1969, but could not conduct any negotiations, since the contractors nor the representatives of the contractors were present at the meeting held on 18-12-1969 even though they had been - informed by the Chief Engineer to that effect. In view of the above, the Technical Sub-Committee desired that the M.I.P.C.Board may consider this matter and take appropriate action.

The Board noted that the works have come to a stand still and it is in public interest to resume them forthwith. On the other hand, there have been persistent representations from both these contractors to consider their cases on grounds of equity and justice. The Board also noted that the period of validity of Bank Guarantee given by these contractors has already expired and a further reconsideration of their cases can be made by going through them in greater detail only if there is an assurance that the amounts covered by the Bank Guarantees are available to Govt. in case the decision is against the contractors.

In view of the above, the following recommendations are made to Government:-

(Cont'd...3)

(1) The Chief Engineer should record final measurements of the works of both these contractors done so far and make immediate arrangements to take up the balance works departmentally.

(2) The contractors may be requested to intimate if they will increase the validity of their Bank Guarantees for atleast a year beyond the date of expiry of previous guarantees so that their various representations may be gone through in greater detail. If they are not prepared to extend the period of validity action should be taken immediately to request the respective banks to deposit the money with the department forthwith.

SUBJECT NO.3:- CONSIDERATION OF THE TENDERS OF ALMATTI RESERVOIR IN RESPECT OF CONSTRUCTION OF ALMATTI DAM STAGE-I.

The Board considered the recommendations of the Technical Sub-Committee of Irrigation North Zone held on 18-12-1969 in respect of the tenders of Almatti Dam and desired that the Chief Engineer may conduct further negotiations offering the following conditions to all the Contractors:-

(1) 2½% E.M.D. may be given in the form of Bank - Guarantee to any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the validity to expire two years after the scheduled date of completion of the works;

(2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills, out of which ½% may be converted into a Bank - Guarantee or Security Bonds (acceptable to Government) the validity of which to expire one year after the scheduled date of completion of the works.

(3) All other conditions putforth in the tender to be withdrawn except such conditions which in the opinion of Government are not of a substantial character.

The result of negotiations conducted with all the contractors by offering the above ~~two~~ conditions should be reported to Govt.

(Cont'l...4)

by the Chief Engineer immediately.

In case favourable offers are not received in the negotiations conducted by the Chief Engineer, fresh tenders may have to be called for by the Chief Engineer by offering the following conditions in the tender notice itself:-

(1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the validity to expire one year after the date of completion of the works.

(2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a Bank Guarantee or Security Bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

(3) Payment of total Cash Advance of Rs. 10 lakhs (distributed in proportion to cost of each reach) against Bank Guarantee or Security Bonds acceptable to Government with interest at 6% per annum which should be recovered in the running bills of the contractors as follows:-

(a) For the first 10 months after the commencement of the work no recovery.

(b) Beyond 10 months the recovery is to be effected at the rate of about 3% of the Cash Advance plus accrued interest thereon in the running bills of the contractors subject to the entire amount being recovered one year earlier than the agreed period for the completion of the work.

(4) 15 lakhs total Cash Advance with interest at 6% per annum be made against the hypothecation of the machinery - 90% of the value of new machinery and 75% of the value of the old machinery brought to site for all the three reaches in proportion to cost of each reach. The Advance will be recoverable as follows:-

(a) For the first 10 months no recovery.

(b) Beyond 10 months the recovery is to be effected at the rate of about 3% of the Cash Advance plus the accrued interest thereon in the running bills of the -

(Contd:....5)

contractors, subject to the entire amount being recovered one year earlier than the agreed. period for the completion of the work.

(5) The rates quoted for excavation should be exclusive of dewatering of foundations which shall be paid for separately at Rs.0-80 (Eighty Paise - only) per horse power/per hour of pumping - subject to the ceiling of Rs.3.50 lakhs as distributed below:-

Reach I	--	Rs. 66,600/-
Reach II	--	Rs. 2,78,000/-
Reach III	--	Rs. 5,400/-
Total:		Rs. 3,50,000/-

(6) For the Quantity of Masonry constructed using Rubble from the excavation the accepted tender rates will be reduced by Rs.0.50 (Fifty Paise - only) per cubic metre of masonry.

M Channappa 31/12/69.

(M. Channappa)
Deputy Secretary to Govt., P.W.D. (Irrigation)
& Ex-Officio Secretary, M.I.P.C. Board.

(No.PWD 81 LIM 69)

cn/

Proceedings of the 7th Meeting of the Technical Sub-Committee of the M.I.P.C. Board as it relates to Irrigation North Zone held on 18-12-1969 at 11-00 A.M. in the Chambers of the Additional Secretary to Govt., Public Works & Electricity Dept., Vidhana Soudha, Bangalore.

MEMBERS PRESENT:

SHRIYUTHS:

1) Iftekhar Ahmed, Additional Secretary to Govt., Public Works & Electy. Dept. -- CHAIRMAN.

2) S.G. Balekundry, Chief Engineer, Irrigation (North), Dharwar. -- MEMBER.

3) M.V. Aswathanarayana Setty, Chief Engineer, Investigation of Hydro Electric & Irrigation Projects, Bangalore. -- -do-

4) M. Channappa, Deputy Secretary to Govt., P.W.D. (Irrigation). -- EX-OFFICIO SECRETARY.

MEMBER ABSENT:

Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation and Power, Bangalore.

SUBJECT NO.1:- Confirmation of the Proceedings of the Technical Sub-Committee of Irrigation - North Zone held on 9th & 10th September 1969.

"C O N F I R M E D".

SUBJECT NO.2:- Consideration of the Tenders of Almatti Reservoir in respect of the construction of Almatti Reservoir (Stage-I).

The letter No.UKP/CEN/ALM/59 dated 2-12-1969 of the Chief Engineer, Irrigation (North), was considered by the Committee. The Committee agreed with the conditions proposed by him which were given in the Annexure to that letter, which are as follows:-

(1) 2½% E.M.D. may be in the form of Bank Guarantee Bonds or any other bonds acceptable to Govt;

(2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills out of which ½% may be converted into Bank Guarantee Bonds or any other Bonds acceptable to - Government.

(Contd...2)

(3) Rs.10.00 lakhs interest free cash advance may be made for all the three reaches distributed in proportion to cost of each reach against Bank Guarantee Bonds or any other bonds acceptable to Government.

(4) Rs.15.00 lakhs interest free advance may be made against hypothecation of Machinery - 90% of value of new machinery and 75% of value of old machinery brought to site for all the three reaches distributed in proportion to cost of each reach.

(5) Excavation:- The rates quoted do not include dewatering of foundations which shall be paid for separately at Rs.0-80 (Eight Paise only) per hour of pumping capacity installed subject to a ceiling of Rs.3.50 lakhs as mentioned below:

Reach I	--	66,600/-
Reach II	--	2,78,000/-
Reach III	--	5,400/-
		3,50,000/-

(6) For the quantity of Masonry constructed using Rubble from the excavation, quoted rate will be reduced by Rs.0-50 (Fifty Paise only) per M3 of Masonry.

The Committee, on consideration of all aspects recommend that the contract may be awarded to M/s Shah Construction Company of Bombay, subject to agreeing to these conditions and withdrawing their own conditions.

The Chief Engineer expressed difficulty in formally getting the concurrence of the Contractors to these conditions unless he gets an authority to negotiate with the Contractor M/s Shah Construction Company on these conditions. He, however, informed the Committee, that he has informally sounded the contractors and they appear to agree with the conditions but an official confirmation has to be obtained from them.

(Contd..3)

The estimate for the Almatti Dam (Stage-I) has also been forwarded by the Chief Engineer for submission to the Technical Sub-Committee. The Members of the Technical Sub-Committee, wanted some time to go through the estimates. Therefore, the estimate has to be placed before the next Meeting of the Board.

In the meanwhile, the Committee recommends that the Tender of M/s Shah Construction Company may be accepted in anticipation of approval to the Estimate.

M Channappa

(M. Channappa)
Deputy Secretary to Government, P.W.D.(Irrgn),
& Ex-Officio Secretary, M.I.P.C. Board and its
Technical Sub-Committees.

(No.PWD 84 LIM 69)

cn/

By Registered Post

28

GOVERNMENT OF MYSORE

Office of the Chief Engineer, PWD,
Irrigation (North), Dharwar,

No.UKP/CEN/AEM/59 Dated 2 DEC 1969

To

The Secretary to Government of Mysore,
Public Works & Electricity Department,
Vidhana Soudha, Bangalore-1.

4609

RECEPTION
Pub. Wks. Dept.
46792
Date 5 DEC 1969
Sec

Sub:- Tenders for the work of constructing Almatti Dam (all the three reaches) across Krishna River.

Ref:- 1) Government letter No.PWD 35 CUK 68 dated 24th December 1968.

2) D.O. No.PWD 20 CUK 69 dated 2-6-1969 from Sri Chandappa Patel, Secretary to Govt. addressed to Sri S.G. Balakundry, Chief Engineer.

Sir,

1. With reference to the letters cited above and according to the discussions with the Hon'ble Chief Minister of Mysore, the tenders are proposed for the Almatti Dam limiting the height of the Dam to R.L.1620 in river portion estimated to cost Rs.7.14 crores. The work is divided into three reaches as under:-

i) Left side non-spillway Dam in Earth and masonry from Ch. 0 to 665 M. upto final height, estimated to cost Rs.254.4 lakhs.

ii) Central portion of masonry dam mainly comprising spillway and Power Dam from Ch.665 to 1363.5 M. upto partial height of R.L.1620 ft., estimated to cost Rs.419.7 lakhs.

iii) Right flank non-spillway masonry dam to the final height from Ch.1363.50 M to 1573 M estimated to cost Rs.39.97 lakhs.

2. Separate tenders were invited for all these three reaches under single notification dated 5-7-1969. However, as it was anticipated that award of all three works to one contractor would bring down costs as expressed by a member of leading construction firms, the contractors were asked to offer their possible rebate if all the three works were entrusted to them. The tenders were received and opened on 24-10-1969.

3. In all 9 contractors have offered their rates of whom seven have tendered for Reach I, six for reach II and all the 9 for reach III. Out of these, five contractors have quoted for all the three reaches, two for reaches I and III

GOVERNMENT OF MYSORE

Office of the Chief Engineer, PWD,
Irrigation (North), Bangalore.

No.CWK\CEN\WAN\62 Dated

To

The Secretary to Government of Mysore,
Irrigation & Electricity Department,
Vidhana Soudha, Bangalore-1.

Sub:- Tenders for the work of constructing Allamatti Dam (in the Krishna Valley).

Ref:- 1) Government letter No.PWD 22 CCK 58 dated 5th December 1958.

2) D.O. No.PWD CS CCK 58 dated 5-6-1959 from Chandrappa Patel, Secretary to Govt. of Mysore, addressed to all the Chief Engineers.

In the letter 2nd cited, the Chief Engineers were requested to invite tenders for the construction of Allamatti Dam in the Krishna Valley. The work is divided into two parts, namely, (i) Earthwork in the dam and (ii) Masonry in the dam and appurtenant works. The tenders for the earthwork in the dam have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore. The tenders for the masonry in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore. The tenders for the earthwork in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore.

3. The tenders for the earthwork in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore. The tenders for the masonry in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore.

4. In all 9 contractors have tendered for the work in the Krishna Valley. Out of the 9 tenders received, the lowest tenderer for the earthwork in the dam is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore, and the lowest tenderer for the masonry in the dam and appurtenant works is also Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore. The tenders for the earthwork in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore.

5. Comparative statements are enclosed for the earthwork in the dam and masonry in the dam and appurtenant works. The tenders for the earthwork in the dam and masonry in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore. The tenders for the earthwork in the dam and masonry in the dam and appurtenant works have been opened and the lowest tenderer is Messrs. Ramaswamy Reddy & Co., Contractors, Bangalore.

6. The Secretary to Government of Mysore,
Irrigation & Electricity Department,
Vidhana Soudha, Bangalore-1.

one for reaches II and III and one for reach III alone.

4. Out of the five who have quoted for all the three reaches, ~~three~~ three have quoted their rebates, if all the three reaches are entrusted to them as per tender conditions along with their tenders. But one M/s. Continental Construction Private Ltd. who are second lowest quoted their rates with no rebate but with the specific stipulation that their offer was valid only if all the three works were to be given to them, as they were not interested in individual works. However, they have subsequently communicated a rebate at a later date under their letter No. R.135/4 dated 3-11-1969. Thus, their belated offer of a rebate is only a second thought to out-bid the lowest, after knowing the latters' rates. As it will be against the sanctity of tenders to consider such belated offers, the same will have to be ignored.

5. Five contractors out of these have put forth various conditions in respect of (i) Limiting Earnest Money Deposit and Security Deposit to about 2% in all, (ii) Cash Advance required by them and secured advance against machinery etc. (iii) escalation clauses for labour and materials, (iv) Arbitration clause to settle disputes and (v) percentage rebates against different kinds of facilities to be given to them.

6. Out of these conditions, this office considers the first and second conditions may be accepted subject to some modifications and all other conditions need to be rejected, excepting those coming under category (v). On a huge work like this costing more than Rs. 7 crores, the 2½% Earnest Money Deposit + 5% SecurityDeposit all in cash works out into a big amount telling upon the contractors' financial capacities. Therefore, the matter was discussed with the Secretary, P.W.D. and Secretary, Finance and it was suggested by them that the Earnest Money Deposit + Security Deposit may be limited to 5% and also interest free advance to the extent of Rs.25 lakhs made as detailed below:-

7,00,00000 ·075 52,50,000·00 52.5 lakhs

1) 2½% Earnest Money Deposit may be in the form of Bank Guarantee Bonds or any other bonds acceptable to Government.

2) Further Security Deposits may be limited to 2½% to be deducted from the running account bills out of which ½% may be converted into Bank Guarantee Bonds or any other bonds acceptable to Government.

3) Rs.10,00,000/- interest free cash advance may be made for all the three reaches distributed in proportion to cost of each reach against Bank Guarantee Bonds or any other guarantee bonds acceptable to Government.

4) Rs.15,00,000/- interest free advance may be made against machinery - 90% of the value of the new machinery and 75% of the value of old machinery brought to site - for all the three reaches distributed in proportion to cost of each reach.

On the assumption that the above will be accepted by both Government and the contractors, cost evaluation is done. While evaluating the values of various offers, of interest on Rs.25 lakhs interest free advance against Bank Guarantee Bonds or hypothecation of machinery are accounted for wherever such advances are asked for. It is assumed that all conditions will be withdrawn and those alternative conditions as per enclosed annexure will be accepted by the contractors.

7. Evaluating the values of all the tenders with conditions stated in the above paras, M/s. Shah Construction Co., Bombay works out lowest for all the three reaches considered invidually and collectively. The evaluated value of their tenders of all the three reaches considered together works out to Rs.666.54 lakhs (6.66% below estimate). The tender amount as per the quoted rates of the firm will be Rs.661.19 lakhs (7.41% below the estimate) which will be taken as the tender discount). From the list of works executed and enclosed to their tender, this firm has executed many civil works costing more than Rs.2.00 crores - chief among them being the Koyna Dam. The comparative statement of all the tenders is enclosed herewith for your perusal.

— placed below

8. Therefore, the offers of M/s. Shah Construction Co., Bombay individually as well as collectively for all the three reaches being the lowest are recommended herewith subject to their agreeing:-

(1) To keep the offer valid beyond 24-12-1969.

(2) To withdraw all their conditions and in lieu thereof,

(3) To accept the additional conditions as per annexure.

P4 23

As it is necessary to award the work without delay since the working season has already commenced, immediate approval to the above proposals is solicited.

Yours faithfully,

(S.G. BALEKUNDRY)
Chief Engineer, PWD,
Irrigation (North).

4/12/69

D.A:-

1 Annexure.
8 Nos. Comparative statements.

PS

vv

ANNEXURE

Conditions now proposed by the Department.

1) 2½% E.M.D. may be in the form of Bank Guarantee bonds or any other bonds acceptable to Government.

2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. bills out of which ½% may be converted into bank guarantee bonds or any other bonds acceptable to Government.

3) Rs. 10.00 lakhs interest free cash advance may be made for all the three reaches distributed in proportion to cost of each reach against bank guarantee bonds or any other bonds acceptable to Government.

4) Rs. 15.00 lakhs interest free advance may be made against hypothecation of Machinery - 90% of value of new machinery and 75% of value of old machinery brought to site for all the three reaches distributed in proportion to cost of each reach.

5) Excavation: The rates quoted do not include dewatering of foundations which shall be paid for seperately at Re. 0-80 (eighty paise only) per hour of pumping capacity installed subject to a ceiling Rs. 3.50 lakhs as mentioned below:

Reach I	66,600/-
Reach II	278,000/-
Reach III	5,400/-
	Rs.3,50,000/-

6) For the quantity of Masonry constructed using rubble from the excavation, quoted rate will be reduced by Rs. 0-50 (fifty paise) per M^3 of masonry.

CHIEF ENGINEER, P.W.D.
IRRIGATION (NORTH) DHARWAR

½ 3/12/63

PWD 20-4UK69. SL NO7

21

To

The CE I.A (N) Dharwar.

Sir,

Sub: As at SL NO6

With ref. your letter NO UKD/ALN/52 dated 15.7.69 on the above subject, I am directed to request you to comply with the instructions issued in the D.O. letter of even no dated 2.6.69, even if it means modifying the tender specification.

Further, I am directed to request you to furnish reply to your letter of even no dated 5.7.69.

An early reply is requested.

Y.F.

US(T)

6/8/69

Serial NO 5 19

PWD 20 GUK 69.

xxxxxxxxxxx
Vidhana Soudha,
5 July 69.

xxx
Public Works & Electricity Department,
Bangalore.

The Chief Engineer,
Irrigation (North),
Dharwar.

Sub: Publication of Tender Notification of Almatti Dam under Upper Krishna Project.

I am directed to refer to your letter No.UKP CPH ALM 52 dated 17-6-69 on the above subject and to state that the necessacity for changing the levels for I stage is not clearly explained. I am therefore directed to request you to place the matter before the technical Sub-Committee for their advice and communicate the same to Government for consideration.

Yours faithfully,

(S.R.MOHAN),
Under Secretary to Government,
Public Works & Electricity Department.

Issued
dated 5.7.69

CLP.473.

Copy to the Special Irrigation Section for information and necessary action.

Serial No 6

20.

C. F. No. 45]

GOVERNMENT OF MYSORE

Tele gram / phone

OFFICE OF

Office of the Chief Engineer, P. W. D.
Irrigation (North), P. B. No: 23
Dharwar.

No. UKP/ALM/52
Encls.

Date 15 JUL 1969

To

The Secretary to Government,
Public Works & Elecy. Department,
Bangalore-1.

Sir,

Subject :- Publication of Tender Notification of Almatti Dam under Upper Krishna Project.

Reference:- Your No. PWD 20 GUK 69 dt. 5-7-1969.

2804

R. & I. SECTION
P. W. & Ele. Dept.
No. 23167
Date 18 JUL 1969
Section (1)

The staging of Almatti Dam was envisaged when it was intended to take up only the foundation portions which otherwise would have got submerged by the Narayanpur lake taken up in first stage. But Government in their D.O.letter No. PWD 20 GUK 69 dated 2-6-1969 have ordered calling for KKK tenders for both the stages of the Dam i.e. the entire Dam. Accordingly the Superintending Engineer, Upper Krishna Project Circle, has called for KKK tenders vide his Notification No. UKP/TND/KPRJ.I/Camp-I of 5-7-69. As such, there is no question of deciding First- Stage levels now.

Page 6 Cf.

Yours faithfully,

(S.G.BALEKUNDRY)
Chief Engineer, P.W.D.,
Irrigation (North), DWR.

rr/14-7.

14/7/69

PWD 20-4UK69 Service/NDS 18

To
The CE I. P(N) Dharwar.

Sir,

Sub:- As at- SL NO4

I am directed to refer to your letter No UKP CE N AL-M 52 dated 17.6.69 on the above subject and to state that the necessity for changing the levels for 1st Stage ~~Stage~~ is not ~~be~~ clearly explained. I am therefore directed to request you to place the matter before the Technical Sub. Committee for their advice and communicate thereafter to this for Consideration.

Y.F.

US(G)

Copy to the Special Investigation Section for information and necessary action

8/7/69

2477

S. & I. SECTION
P. & Lds Dept.
No. 18836
Date 23 JUN
Section 19

St. 404

GOVERNMENT OF MYSORE

PUBLIC WORKS DEPARTMENT.

UPPER KRISHNA PROJECT.

BRIEF TENDER NOTIFICATION DATED 20 JUNE 1969.

-ooo-

1. Item-wise rate sealed tenders in duplicate are invited from the Registered Class I Contractors of Mysore Public Works Department for the following work and will be received by the Executive Engineer, PWD., Upper Krishna Project Dam Site Division, Almatti Dam Site(P.O), Taluka. Bagewadi, District.Bijapur, upto 4 P.M. on 20.8.1969.

Sl. No.	Name of work.	Cost of work put to tender (approximate).	Earnest money Deposit at 2½% of column-3.	Cost of one set of tender Documents comprising three copies.	Period of completion excluding monsoon period from 15th June to 15th September in calendar months.	Division to which the work is attached.
1.	2.	3.	4.	5.	6.	7.
	CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER NEAR ALMATTI VILLAGE, BAGEWADI TALUK BIJAPUR DISTRICT.					
1.	Constructing Almatti Dam (partial height only) across Krishna river-Spillway Cement Masonry Dam from 609.60 Metres to 1040.58 Metres (chainage 20 to chainage 34.14) and Nonspillway Cement masonry Dam	Rs.570 lakhs.	Rs.14.25 lakhs.	Rs.300/- + 3% Sales Tax.	36(Thirty six months).	Upper Krishna Project Dam Site Division, Almatti Dam Site(PO), Taluka.Bagewadi, Dist.Bijapur.

Sl-4

Contd....2.

2477
S. & I. SECTION
P. W. & Ls Dept.
No 18836
Date 23 JUN
Section....P.W.....

Sl. 404

17

GOVERNMENT OF MYSORE

PUBLIC WORKS DEPARTMENT.

UPPER KRISHNA PROJECT.

BRIEF TENDER NOTIFICATION DATED 20 JUNE 1969.

-ooo-

1. Item-wise rate sealed tenders in duplicate are invited from the Registered Class I Contractors of Mysore Public Works Department for the following work and will be received by the Executive Engineer, PWD., Upper Krishna Project Dam Site Division, Almatti Dam Site(P:O), Taluka. Bagewadi, District Bijapur, upto 4 P.M. on 20.8.1969.

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1.	Constructing Almatti Dam (partial height only) across Krishna river-Spillway Cement Masonry Dam from 609.60 Metres to 1040.58 Metres (chainage 20 to chainage 34.14) and Nonspillway Cement masonry Dam	Rs.570 lakhs.	Rs.14.25 lakhs.	Rs.300/- + 3% Sales Tax.	36(Thirty six months).	Upper Krishna Project Dam Site Division, Almatti Dam Site(PO), Taluka.Bagewadi, Dist.Bijapur.

Sl-CH

Contd....2.

Sl. No.	Name of work.	Cost of work put to tender(approximate).	Earnest money Deposit at 2½% of Column-3.	Cost of one set of tender Documents comprising three copies.	Period of completion excluding monsoon period from 15th June to 15th September in Calendar months.	Division to which the work is attached.
1.	2.	3.	4.	5.	6.	7.
	from 304.80 Metres to 609.60 Metres (chainage 10 to chainage 20) and from 1040.58 Metres to 1310.64 Metres (chainage 34.14 to chainage 43) including foundation excavation, foundation treatment and all other appurtenant works.					

2. Tender Forms, date of issue and receipt of tender documents.

i) Tenders should be in the prescribed form obtainable from the Office of the Executive Engineer,PWD., Upper Krishna Project Dam Site Division, Almatti, Dam Site(PO), Taluka. Bagewadi, District.Bijapur, on payment of the amount specified in column 5 (non-refundable) by cash or money order on all working days from 14.7.1969 to 17.7.1969 during office hours. Cheques will not be accepted. In case, the tender documents are required to be sent by post, an additional amount of Rs.10/- per set, should be paid or sent by money order to meet the postal and other incidental charges.

ii) Tenders should be submitted in duplicate in sealed covers duly superscribed with the name of work and

Contd.....3

name of Contractors and should be addressed to the Executive Engineer, PWD., Upper Krishna Project Dam Site Division, Almatti Dam Site(PO), Taluka. Bagewadi, District.Bijapur.

iii) Conditional tenders what-so-ever are liable to be rejected at the discretion of the competant authority without assigning any reasons threfor.

3. Earnest Money:-

(i) Notwithstanding the rules for Registration of Contractors, each ~~tender~~ tenderer must pay 1% of the estimated cost of the work put to tender as Earnest Money Deposit and attache to the tender in the form of Post Office cash Certificates, on Small Savings Certificates, or Government Treasury Savings Deposits, Government of India, National Defence Certificates or Government Promissory Notes or Fixed Deposit Receipts or Bank Guarantees from Scheduled Banks acceptable to Government, pledged in favour of the Executive Engineer, PWD., Upper Krishna Project Dam Site Division, Almatti Dam Site(PO). Taluka. Bagewadi, District.Bijapur or credit into the Mysore Government Treasury under the head "Revenue Deposits" on behalf of the Executive Engineer. (No interest is payable) However, Registered Contractors who have already deposited a standing deposit of Rs.50,000/- with the Registering Authority, will have to pay an amount equal to 1% of the estimated cost of the work tendered for less Rs.50,000/- as ~~an~~ additional Earnest Money Deposit. The Bank Guarantees offered by them, will be subject to strict observance of rules of Bank Guarantee Scheme laid down by the Government.

(ii) The Earnest Money Deposit will not be ~~xxxxxxxxx~~received in cash or currency Notes. Any request for adjustment of amount due from the Government, will not be considered

4. Opening of Tenders:-

The tenders will be opened by the Executive Engineer, UKP Dam Site Division, Almatti Dam Site(PO). Taluka.Bagewadi, District.Bijapur, at 4.30 P.M. on 20.8.1969 if possible or any subsequent date fixed by the

Contd.....4.

Executive Engineer in the presence of tenderers or their authorised agents who may choose to be present on the specified date.

5. Acceptance of Tender:-

The authority competent to accept the tenders, shall have the right to reject any or all the tenders without assigning any reasons thereof.

6. Supply of Departmental Machinery and Materials:-

The Contractor shall make their own arrangement for the machinery, tools and plant required for successful completion of work tendered for. Materials stores and machinery available in the Department other than those mentioned in Schedule of materials to be supplied by the Department, will be issued to the Contractor if they can be conveniently spared on the request by the Contractor at the discretion of the Department on such terms and conditions and at such rates as may be decided and fixed by the Government from time to time and no claim can be entertained for any delay in the issue of such materials, stores and machineries.

7. General Information:-

(i) Almatti Project Camp is approachable (a) By road from Hubli (160 K.M.), Belgaum (176 KM) or Bijapur (~~56~~ 70 KM) (b) By railway from Almatti Station situated on Hubli - Sholapur metre gauge Railway line of South Central Railway.

(ii) A fair weather crossing near the Dam Site, is constructed and this will be open from November to June.

(iii) The average discharge of the river during the working season varies from 100 cusecs to 5000 cusecs.

(iv) The annual rain-fall at the Dam Site is about 50 Cm. and the average elevation of the River bed at the Dam Site is R.L.1600.

(v) There are 9 suites in the Travellers Bungalow(Class-I) at the Dam Site.

(vi) Gasolene station, Power supply and Work-shop facilities are available at site.

Contd...5.

8. Further details can be had from the Office of the Executive Engineer, PWD., Upper Krishna Project Dam Site Division, Almatti Dam Site(PO), Taluka. Bagewadi, District. Bijapur, on all working days during Office hours.

P'mukhi,
19/6*

SUPERINTENDING ENGINEER, PWD.,
UKP Circle, Almatti

3) Chief Engineer PWD., Irrigation (South) Bangalore.
4) The Chief Engineer, PWD., Communications & Buildings, Bangalore.
5) The Chief Engineer, PWD., (General) of Mysore, Bangalore.
6) The Chief Engineer, Investigation of Hydro-electric Projects, Anandrao Circle, Bangalore 9.
7) The Chief Engineer, Tungabhadra Board, T.B. Dam, Hospet.
8) The Divisional Commissioner, Gulbarga/Belgaum.

Copy with a copy of the notification forwarded with compliments to the following with a request for wide publicity.

1) The Superintending Engineer PWD., Ghataprabha Project Circle, Hidkal Colony.
2) The Superintending Engineer, PWD., Malaprabha Project Circle, Saundatti.
3) The Superintending Engineer, Tungabhadra Project Circle, Munirabad.
4) The Superintending Engineer, Tungabhadra Canal Constn: Circle, Camp Yermarus P.O. (Raichur District).
5) The Superintending Engineer, Investigation Circle, Camp Yermarus P.O. (District Raichur).
6) Superintending Engineer, PWD., Bhadra Reservoir Project, B.R.T. Colony.
7) The Superintending Engineer, PWD., Sharavathy Valley Project, Kargal.
8) The Superintending Engineer, PWD., Belgaum Circle, Belgaum.
9) The Superintending Engineer, PWD., Gulbarga Circle, Gulbarga.
10) The Superintending Engineer PWD., Shimoga Circle, Shimoga.
11) The Superintending Engineer, PWD., Bangalore Circle, Bangalore.
12) The Superintending Engineer, PWD., Dharwar Circle, Dharwar.
13) The Superintending Engineer, PWD., Mysore Circle, Mysore.
14) The Superintending Engineer, PWD., Irrigation Construction Circle, Mysore.
15) The Superintending Engineer, PWD., Hemavathy Project Circle, Gorur, Hassan District.
16) The Superintending Engineer, P.H.E. Circle, Dharwar.
17) The Superintending Engineer, Tungabhadra Board, T.B. Dam P.O. Hospet.

Copy with a copy of the notification forwarded to the following with a request for wide publicity.

1) The Deputy Commissioner, Bijapur/Gulbarga/Raichur.

2) The Executive Engineer, PWD., UKP Dam Site Division, Almatti/UKP Left Bank Dam Division, Narayanpur/UKP Dam Right Bank Division, Rodalbanda/UKP Canal Division, Narayanpur/UKP Contour Survey Division, Krishnapur/ Bagalkot Division, Bagalkot/Bijapur Division, Bijapur/ Raichur Division, Raichur/Gulbarga Division, Gulbarga/ Yadgir Division, Yadgir/Bidar Division, Bidar/Bellary Division, Bellary/Koppal Division, Koppal/ PHE Division Gulbarga/PHE Division, Bellary/Housing Board Division, Gulbarga/G.D.R.B. Division, Hidkal/G.D.L.B. Division No.I Hidkal/ G.D.L.B. Division No.II Hidkal.

(contd... 3)

12

Office of the Superintending Engineer PWD.,
UKP Circle, Almatti Colony,
District: Bijapur.

No. UKP. TND. PRJ.I/ 4479 dated: 20-6-69

To

The Director of Publicity &
Information,
Vidhana Soudha,
Post Bag No. 27,
BANGALORE 1.

Subject:- Publication of Tender Notification of Almatti Dam under Upper Krishna Project.

Sir,

I am enclosing herewith 10 copies of the Brief Tender Notificatinn inviting tenders of Almatti Dam under Upper Krishna Project and request you to please arrange publication of the same in the following dailies in 3 insertions.

2478

R. & I. SECTION
P. W. & Ele. Dept.
No. 18827
Date 23 JUN
S 69

1) Deccan Herald (English daily)
2) Prajavani (Kannada daily)
3) Samyuktha Karnataka (Kannada daily- Hubli edition).
4) Times of India (English daily).
5) Indian Express (English daily- All editions).
6) Hindu (English daily).

The necessary bill of cost may please be sent to the Executive Engineer PWD., Upper Krishna Project Damsite Division, Almatti Dam Site (P.O) Taluka Bagewadi, District Bijapur for arranging payment.

Yours faithfully,

Superintending Engineer, PWD.,
UKP Circle, Almatti.

G.Rao.

Copy with a copy of the Notification submitted to the following for kind information.

1) The Secretary to Government, P.W.D., Vidhana Soudha, Bangalore 1.
2) The Chief Engineer, PWD., Irrigation (North), Dharwar.

(contd... 2)

The Executive Engineer, PWD., G.L.B.C. Division, Jamkhandi/M.R.C. Division, Navilthirtha Colony/ Malaprabha Rehabilitation Division, Manoli/ M.C.C. Division, Nargund/ M.D. Division, Navalgund/ T.R. Division, Munirabad/ No.5 Canal Division, Yermarus Camp P.O. (Raichur District)/ H.L.C. Division No.1 Bellary/ H.L.C. Division No.2, Bellary.

Copy with a copy of the Notification forwarded to the following for wide publicity.

1) All the Assistant Engineers of Upper Krishna Project Circle.

Superintending Engineer PWD.
UKP Circle Almatti.
19/4/89

G.Rao. 19/4

NO 4

9

C. F. No. 45]

GOVERNMENT OF MYSORE

Tele gram / phone

OFFICE OF

Office of the Chief Engineer, P. W. D.
Irrigation (North), P. B. No: 23
Dharwar.

No. UKP CEN ALM 52
Encls.

Date 17 JUN 1969

To

THE SECRETARY TO GOVERNMENT OF MYSORE
PUBLIC WORKS AND ELECTRICITY DEPARTMENT
VIDHANA SOUDHA, BANGALORE-1.

Sir,

SUB:- UPPER KRISHNA PROJECT WORKS UNDER IST PHASE.

2419
F. I. SECTION
P. & Elc. Dept.
No 18235
Date 19 JUN '969
Section....L.A.....1.

REF:- 1.G.O.No.PWD 11 MUK 63 dated 22-5-1968.
2.D.O.letter dated 2-6-69 addressed to this office regarding construction of Almatti Dam.

...

In D.O.letter under reference it is desired that Almatti Dam be built up to R.L.1620-00 in river bed and R.L.1680.00 on both the flanks under 1st Phase proposals approved by Government.

2. It is since found desirable to locate the river sluices of Almatti dam at R.L.1620-00 instead of R.L.1645-00 as previously proposed. The bellmouths of the sluices would start from R.L.1615.33.

Further the Railway Bridge across River Krishna on Sholapur-Gadag Metre gauge line may be affected if Almatti Dam is constructed up to R.L.1620-00 in River bed under 1st phase and further more if there is delay in taking up of 2nd phase work.

3. In view of the above it will be necessary to construct Almatti Dam in 1st Stage as under:-

1. Almatti Dam up to R.L.1610-00 including all appurtenant work in the river bed.

2. Dam up to R.L.1650-00 on both flanks.

3. On Right Flank-Excavation of foundation for remaining portions of the Dam for the entire length.

4. On the left flank-the foundation Excavation for an Extra length of 50' beyond the dam portion.

The remaining portions of the work of Almatti Dam will be included in 2nd Phase. Tenders are being called for accordingly. This is for in-formation of Government.

Yours faithfully,

Chief Engineer, Irrigation (North), DWR.

rln/16-6.

UKN03

PROCEEDINGS OF THE GOVERNMENT OF MYSORE
PUBLIC WORKS & ELECTRICITY DEPARTMENT.

Subject:-Upper Krishna Project.

Read:-1) Government Order No.PWD 6 MUK 63 dated 6-5-1964.
2) Government Order No.PWD 11 MUK 63 dated 17-9-1964.
3) Government Order No.PWD 11 MUK 63 dated 26th August 1967
4) Chief Engineer, Irrigation Projects (North) Dharwar's letter No.UKP/Designs, dated 27-2-1968.

PREAMBLE:-

In Government Order dated 6-5-1964 cited approval was accorded to an estimate amounting to Rs. 5 crores for starting preliminary works for both Narayanapur and Almatti Dams.

2) In Government Order dated 17-9-1964 it was ordered that

(a) Siddapur site should be taken up instead of Narayanapur site for the construction of the lower dam,

(b) The Almatti Dam should be constructed with foundations and width for the ultimate F.R.L. of 1705 the height being restricted for the present to store water at an intermediate level of R.L. 1685 and

(c) The Siddapur Dam should be constructed with full foundations and width for the ultimate F.R.L. of 1617.5 the height being restricted for the present to store water at the Intermediate Level of R.L. 1607.5

3) In Government Order dated 26th August 1967 it was ordered that the lower reservoir be constructed at Narayanpur instead of at Siddapur and the works of the First Stage of the Project be phased so as to provide immediately irrigation over 1.2 lakhs acres.

4) With the letter dated 27th February 1968 the Chief Engineer has furnished to Government a modified project for Upper Krishna. With a view to achieve maximum efficiency and economy the Project has been reviewed and the following modifications have now been proposed:

(i) Instead of taking off a Left Bank Canal from Almatti to irrigate 5.5 lakh acres and another Canal from the Left Bank at Narayanpur to irrigate 2.8 lakh acres, it is found feasible to irrigate the same area and a little more by taking off a single canal from the Lower Dam with its cill level being slightly higher than what was previously contemplated. This single Left Bank Canal would irrigate 10.1 lakh acres at a cost of Rs. 40 crores as against the previously proposed two canals irrigating 8.3 lakh acres at a

cost of Rs. 89.3 crores.

(ii) The Lower Dam is to be located three miles upstream of the Narayanpur Dam site, as the cost of constructing this Dam at this site for the same F.R.L . 1607.6 would be only Rs. 15.9 crores as against Rs. 27 crores required for constructing the Dam at the original Narayanpur site.

(iii) The bulk of the storage required for the Project will be provided at Almatti as the cost of storage at Almatti is less than the cost of storage at the Lower Dam,

(iv) The cost of the canal system could be reduced by lining the canals in the First Stage itself.

(v) Economy in the capacity of the canals could be achieved by providing for only 10 percent of the irrigable area under paddy and providing equal extent of crops in Rabi and Khariff periods. The cost of the Project for irrigating 19.5 lakh acres would be only Rs.143 Crores as against Rs. 168 crores previously estimated for irrigating 16 lakh acres.

(vi) In the First Stage of the Project, (a) the Almatti Dam be completed upto R.L.1620 in the river bed and R.L. 1680 on the flanks, (b) the Upper Narayanpur Dam be completed to its full height as now proposed, i.e. F.R.L.1615 (2½ Feet lower than the Sangam Shrine), (c) the Left Bank Canal be constructed to irrigate 10.10 lakh acres by flow with an additional capacity for 1½ lakh acres by lift irrigation to be introduced later in the Second Stage.

(vii) The total cost of the First Stage works out to Rs. 75 crore

(viii) In the Second Stage of the Project, (a) the Almatti Reservoir be completed for F.R.L. 1720, (b) Right Bank Canal from Upper-Narayanpur Dam to irrigate 5 lakh acres, (c) two high level canals from Almatti one on each bank be constructed to irrigate 1.05 lakh acres, (d) Lift Irrigation for 3.35 lakh acres from Almatti Reservoir and the Upper Narayanpur Left Bank Canal be provided.

(ix) The total cost of the Second Stage would be Rs.68 crores.

5. It was considered desirable to refer these modified proposals of Upper Krishna Project to the Board of Consultants for Irrigation Projects for advice. Shri A.K.Char, Member, Board of Consultants to whom this was referred has recommended the locati

of the Lower Dam at Upper Narayanpur Site and the taking off of a single canal from Upper-Narayanpur Dam to irrigate 10.1 lakh acres on the Left side as against previously contemplated two canals on the Left Bank one from Almatti and another from Narayanpur to irrigate 8.3 lakh acres.

6. The modified proposals were examined by the Technical Sub-Committee of the Major Irrigation Projects Control Board at its meeting held on 11.5.1968 and accepted by them subject to the suggestion, that the Lift Irrigation proposed downstream of Almatti Dam should be replaced by flow if it is found feasible and more economical.

7. The Major Irrigation Projects Control Board at its meeting held on 13-5-1968 have accepted the recommendations of the Technical Sub-Committee and have generally approved the modified proposals as a whole.

ORDER NO.PWD 11 MUK 63 BANGALORE, DATED, 22-5-1968.

After considering all aspects of the case Government are pleased to approve:-

(a) the modified proposal of the Upper Krishna Project to irrigate 19.5 lakh acres at a cost of Rs.143 crores.

(b) the foundation of the Almatti Dam be constructed for an ultimate F.R.L. of 1720.

(c) the lower Dam be located at Upper-Narayanpur site.

(d) the Left Bank Canal be taken off from Upper-Narayanpur Dam to irrigate 10.1 lakh acres in the first stage.

(e) the Almatti Dam be completed in the first stage upt R.L.1620 in the River bed and upto R.L. 1680 in the Flanks.

(f) the Upper-Narayanpur Dam be completed fully, i.e., upto F.R.L. 1615 ($2\frac{1}{2}$' lower than the Sargam Shrine) in the very first stage.

By order and in the name of the Governor of Mysore,

(S.K. Mohan),
Under Secretary to Government,
Public Works & Elecy.Department.

To
The Chief Engineer, Irrigation (North), Dharwar.
The Accountant General, Mysore, Bangalore.
The Finance Department (Budget).
Weekly Gazette.
Copy to Cabinet Section with reference to Cabinet Note No. dated 14-5-1968.

PKT:22-5-1968:

Ft No 2 — 6

Chandappa Patel

D.O.No.PWD 20 LWK 69 — 2nd June 1969.

Dear Shri Balekundry,

Subject: Construction of Almatti Dam.

Reference: 1. Government order No.PWD 11 MUK 63 dated 22nd May 1968.

2. Government letter No.PWD 8 LLM 69 dated 13-5-1969.

--

In the meeting of the M.I.P.C. Board held on 14th April 1969, the proceedings of which have already been sent to you in Government letter dated 13-5-1969 cited above, it has been decided that tenders of the Almatti Dam should becalled for immediately, so that the foundation works of Almatti Dam could be taken up and executed simultaneously along with the Narayanapur Dam. I request you kindly to call for tenders for the work upto R.L. 1620 in the river bed and upto R.L. 1680 in the flanks first phase, and for the remaining portion of the dam as second phase. Tenders for both the phases may be invited simultaneously. This may be attended to on TOP-PRIORITY basis. Action taken in this matter may be intimated to Govt. very early.

Yours sincerely,

CM
CG

Issued
Dated 2/6/69

Shri S.G. Balekundry,
Chief Engineer, IP(North)
Dharwar.

Draft.

D.O.NO.PWD SLN02

Dear Shri

Sub:- Construction of Almatti Dam.

Ref:- 1) Govt.Order No.PWD 11 MUK 63 dated 22-5-1968.

2) Govt.letter No.PWD 8 LLI 69 dated 13-5-1969.

In the Meeting of the M.I.P.C. Board held on 14-4-1969, the Proceedings of which have already been sent to you in Govt.letter dated 13-5-1969 cited above, it has been decided that tenders of the Almatti Dam ~~have to~~ should be called for immediately, so that the foundation works of Almatti Dam could be taken up and executed simultaneously along with the Narayanapur Dam. ~~The Board kindly agreed to the suggestion. As this work is to be taken up immediately along with the work of Narayanapur Dam and the canals~~, I request you to ~~finalise the estimates of the Almatti Dam immediately and also~~ kindly finalise and call for tenders, for the work up to R.L. 1620 in the first phase, and for the remaining portion of the dam as second phase. Tenders for both the phases may be invited simultaneously.

Action taken in this matter may be intimated to Govt. very early.

Yours sincerely,

Shri S.G.Balekundry, B.E.,
B.Sc.,(Hons), MIE.(Edin),
Chief Engr. IP. (North),
Dharwar.

cn/

PROCEEDINGS OF THE 30TH MEETING OF THE M.I.P.C. BOARD HELD ON 14-4-1969 IN THE CHAMBERS OF THE CHIEF MINISTER, VIDHANA SOUDHA, BANGALORE.

MEMBERS PRESENT:

SHRIYUTHS:

1. Veerendra Patil, Chief Minister of Mysore. -- CHAIRMAN.
2. D. Parameswarappa, Deputy Minister for Major Irrigation and Electricity. -- VICE-CHAIRMAN.
3. Chandappa Patel, Secretary to Government, Public Works & Electricity Department. -- MEMBER.
4. Maninarayanaswamy, Secretary to Government, Finance Department. -- -do-
5. D. Krishna, Deputy Secretary to Government, D.P.C. Department representing Secretary, D.P.C. Department. -- -do-
6. M.V. Aswathanarayana Setty, Chief Engineer, Investigation of Hydro Electric & Irrigation Projects, Bangalore. -- -do-
7. S.G. Balekundry, Chief Engineer, Irrigation Projects (North), Dharwar. -- -do-
8. K. Basanna, Chief Engineer, Irrigation - Projects (South), Bangalore. -- -do-
9. Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation and Power. -- -do-
10. Revanna, Joint Director of Agriculture, representing the Director of Agriculture. -- -do-
11. M. Channappa, Deputy Secretary to Govt., P.W.D. (Irrigation). -- SECRETARY.

SUBJECT NO.1:- Confirmation of the Proceedings of the 29th Meeting of M.I.P.C. Board held on 14-11-1968.

"C O N F I R M E D".

SUBJECT NO.2:- Note on the working estimates for the components of Narayanpur Dam and Narayanpur Left Bank Canal of Upper Krishna Project.

(a) Estimate for Earth Dam of Left Bank from Ch.4 to 48;

(b) Estimate for Spillway Concrete Dam and Non-Spillway Masonry Dam from Ch.48.0 to 108.

(c) Estimate for Earth Dam Right Bank from Ch.108 to 168.

(d) Estimate for Earthen Dykes from Ch.168 to 350.

(e) Estimate for Earth work and lining of Narayanpur Left Bank Main Canal from 1 to 10 miles.

The Technical Sub-Committee of the M.I.P.C. Board on having considered the above estimates, has recommended as follows:-

"The Sub-Committee considered the above estimates and recommends approval of the estimates in general".

The question whether it was possible to replace the Concrete Masonry of Spillway portion of the Dam - was considered. For structural reasons, the Sub-Committee recommends adoption of the proposals of the Chief Engineer to construct the spillway portion of the Dam in Concrete. The spillway portion of the Concrete Dam should be constructed with the maximum of 3" size aggregate instead of 6" size, in view of the fact that the heavy size mixing plants required for latter size concrete, are not made in the country and they have to be imported, which would mean expenditure of foreign exchange and considerable delay in procuring thereof".

The above recommendation of the Technical Sub-Committee was considered by the Board and agreed to.

SUBJECT NO.3:- Note on the tenders received for the construction of Concrete Dam from Ch.56 to 79.9 and for Non-Spillway Masonry Dam from Ch.48 to 56 and from Ch.79.9 to 103 including foundation excavation, foundation treatment, etc. (but excluding Crest-Gates of Narayanpur Dam).

The Proceedings of the Technical Sub-Committee of the M.I.P.C. Board held on 11/12-4-1969 was perused by the Board.

The Secretary, P.W.D. mentioned that the Technical Sub-Committee was required to examine whether pre-cooling arrangement was necessary or not apart from the consideration of the tenders received for the Masonry and Concrete Dam portion of the Narayanpur Dam. The Technical Sub-Committee have expressed as under:-

"(1) The conditions obtaining with Concrete Dams already constructed should be studied including their performance after construction and the mode of construction, etc.,

(2) Attempt should be made to reduce the extent of pre-cooling, if found necessary, by introducing 20 per cent Puzzolana and also by reducing the thickness of the Concrete layers to say 3 to 4 inches.

The heat losses during the interval between consecutive layers should also be taken into account for determining whether pre-cooling would be reduced or avoided".

(Contd...3)

After discussion, it was agreed that the views of the Technical Sub-Committee be accepted and that the need or otherwise of pre-cooling arrangements be decided after necessary studies suggested by the Technical Sub-Committee.

The recommendations of the Technical Sub-Committee in regard to the entrustment of the work to a suitable agency were considered and after detailed discussion it was decided as under:-

"The work of constructing Spillway Concrete Dam and Non-Spillway Masonry Dam Ch.48 to Ch 108 across Krishna River near Narayanpur be entrusted to the Mysore State Construction Corporation. While agreeing to keep their offer open till the end of April 1969, the Corporation had requested that a 3 per cent increase should be allowed over the rates quoted by them, in view of one working season having already been lost. It was agreed that the Corporation should rationalise its rates taking into account 3 per cent extra indicated in their letter".

SUBJECT NO.4:- Note on Selection of material for the construction of Narayanpur Dam Spillway.

It was agreed that, as recommended by the Technical Sub-Committee, the Spillway portion of the Narayanpur Dam be constructed with a maximum of 3" size aggregate instead of 6" size in view of the fact that the heavy size mixing plants required for the latter size Concrete would not be available in the country and that their import from abroad would mean foreign exchange and considerable delay.

SUBJECT NO.5:- Note on Hydrological Data of the Malaprabha Project.

"Deferred".

SUBJECT NO.6:- Progress Reports of Projects under execution:

The progress reports of the following projects were generally reviewed by the Board.

1) Tungabhadra Project.
2) Kabini Project.
3) Hemavathy Project.
4) Ghataprabha Project.
5) Malaprabha Project.
6) Upper-Krishna Project.

After discussion, it was agreed that the views of the Technical Sub-Committee be accepted and that the need or otherwise of pre-cooling arrangements be decided after necessary studies suggested by the Technical Sub-Committee.

The recommendations of the Technical Sub-Committee in regard to the entrustment of the work to a suitable agency were considered and after detailed discussion it was decided as under:-

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SUBJECT NO.4:- Note on Selection of material for the construction of Narayanpur Dam Spillway.

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1) Tungabhadra Project.
2) Kabini Project.
3) Hemavathy Project.
4) Ghataprabha Project.
5) Malaprabha Project.
6) Upper-Krishna Project.

As regards the Kabini Project, Prof. N.C. Govinda Rao, desired that this project be expedited providing adequate finances to this project.

The Secretary, P.W.D. stated that since the estimates of Almatti Dam are under finalisation, the Chief Engineer might be permitted to call for tenders of the Almatti Dam so that the foundation works of this Dam could be taken up and executed simultaneously along with the Narayanapur Dam. The above suggestion of the Secretary, P.W.D. was considered by the Board and agreed to in general.

M. Channappa 8/5/69

(M. Channappa)
Deputy Secretary to Govt., P.W.D. (Irrigation)
& Ex-Officio Secretary, M.I.P.C. Board.

(File No.PWD 8 LLM 69).

cn/

As regards the Kabini Project, Prof. N.C. Govinda Rao, desired that this project be expedited providing adequate finances to this project.

The Secretary, P.W.D. stated that since the estimates of Almatti Dam are under finalisation, the Chief Engineer might be permitted to call for tenders of the Almatti Dam so that the foundation works of this Dam could be taken up and executed simultaneously along with the Narayanapur Dam. The above suggestion of the Secretary, P.W.D. was considered by the Board and agreed to in general.

M. Channappa 8/5/69

(M. Channappa)
Deputy Secretary to Govt., P.W.D. (Irrigation)
& Ex-Officio Secretary, M.I.P.C. Board.

(File No.PWD 8 LLM 69).

cn/

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works & Electricity Department)

Subject:-Tenders for the construction of Almatti Dam - Approval of -

---

Read:-

i) Correspondence ending with letter No.UKP/ALM/59 dated 25-2-1970 from the Chief Engineer, Irrigation Projects (North), Dharwar.

ii) Letter No.PWD 20 GUM 69 dated 18.3.1970 addressed to the Chief Engineer, Irrigation Projects (North), Dharwar.

Preamble:-

It is reported by the Chief Engineer, Irrigation Projects, (North) Dharwar that the tenders were invited for the Almatti Dam limiting the height of the Dam to R.L.1620 in river portion estimated to cost Rs.7.14 Crores. The work was devided into three reaches as under:-

i) Left side nonspill way dam in Earth and Masonry from Ch. 0 to 665 M. upto final height estimated to cost Rs.294.4 lakhs.

ii) Central Portion of Masonry dam mainly comprising spill way and power dam ~~branch~~ from Ch.665 to 1363.5 M. upto partial height of R.L.1620ft. estimated to cost Rs.419.7 lakhs.

iii) Right bank non-spill way masonry dam to the final height from Ch.1363.50 M to 1573 M. estimated to cost Rs.39.97 lakhs.

Separate tenders were invited by the Chief Engineer for all the three reaches under a single Notification dated 5.7.1969. The contractors were also asked to offer their possible rebate if all the three works were entrusted to them.

In all, 9 contractors offered their rates of whom seven have tendered for reach I. Six for reach II and all the nine for reach III. Out of these, five contractors have quoted for all the three reaches, two for reaches I & III, one for reaches II and III and one for reach III alone. Five contractors out of these have putforth various conditions. Evaluating the values of all the tenders with conditions stated, the tender of M/s. Ghosh Construction Company, Bombay, is the lowest for all the three reaches considered individually and collectively The evaluated value of their tenders of all the three reaches considered together works out to Rs.666.54 lakhs (6.66% below estimate). The tender amount as per the quoted rates of the firm will be Rs.661.19 lakhs(7.43 below the estimate which will be taken as the tender discount)

....2.....

The tenders were examined by the Technical Sub-Committee of the Major Irrigation Project Control Board on 18-12-1969 and were also considered by Major Irrigation Project Control Board in its meeting held on the same day. It was decided by the Board that the Chief Engineer be requested to conduct negotations with all the tendered contractors offering the following two conditions:

1)2½% Earnest Money Deposit may be given in the form of bank guarantee from any one of the scheduled banks or security bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

ii)Further security Deposit may be limited to 2½% to be deducted from the R.A.bills out of which, ½% may be converted into a bank guarantee or security bonds acceptable to Government, the validity of which to expire one year after the date of completion of the works.

In response to negotiations conducted, M/s.Shah Construction Company,Ltd., Bombay have withdrawn their conditions except minor ones. They have demanded a premium of ½% on their originally quoted rates. Their net offer as evaluated, after negotations, stands at Rs. 6,66,54,191/- for all the three reaches at 6.67% below estimate and they are the lowest.

The matter was placed before the Technical sub-committee of the Major Irrigation Projects Control Board and Major Irrigation Projects Control Board in its meeting held on 14-3-1970 have recommended acceptance of the offer of M/s.Shah Construction Company Ltd., Bombay subject to certain conditions.

ORDER NO.PWD 20 GJK 69,DATED,BANGALORE MAY,1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

1. Earnest Money Deposit Equivalent to 2½% of the estimated cost of the work shall be given by the contractor in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government)

.....3.....

may be furnished. The validity of the Bank Guarantee or of the Bonds shall be such as to expire not less than one year after the agreed date of completion of the works.

2. Further Security Deposit may be limited to 2½% of the estimated cost of the work and may be deducted from the running account bills, out of which ½% may at Contractor's option be converted into Bank-Gaurantee or Security Bonds (acceptable to Government) the validity of which should expire not less than one year after the scheduled date of completion of the works.

3. Electric power at 440 V. and at required points will be made available by the Department, the consumption charges at bulk supply rates as prescribed by the Mysore State Electricity Board together with all taxes thereon will be deducted from the bills.

4. Dewatering of foundations at 80 paise (Paise Eighty only) per hour (per h.P) of installed capacity of pumps actually used will be paid subject to a maximum limit of Rs.3,50,000/- as mentioned below:-

Reach - I.	Rs.	66,600
Reach - II.	Rs.	2,78,000
Reach - III.	Rs.	5,400
	Total:	3,50,000

5. For the quantity of Masonry constructed using rubble stones obtained from the excavated material, the quoted rates for the item of work will be reduced by 50 paise (paise fifty only) per Cubic Meter of Masonry.

6. All the Contractors quoted rates are inclusive of costs, regarding the coffer dam, and such other - diversion works.

7. The contractor shall insert pipes in masonry for grouting and grouting will be done through the pipes if required. This will have no effect on the tendered rates for masonry or concrete or for the grouting pipes and contractor will not be entitled to any extra rate or compensation on account of the same.

8. The drawings furnished along with the tender by the Department are only tentative and are for

guidance only. For all alterations in the specification and designs, the conditions mentioned in Clause-13 of the Schedule of Contract form accompanying the Tender will hold good.

This order issues with the concurrence of the Finance Department vide their U.O.Note No.1651/70 (WRS)-I dated 20-4-1970.

(S.K.MOHAN)
Under Secretary to Government,
Public Works & Elecy.Department.

To

1.The Chief Engineer,Irrigation Project (North), Dharwar.
2.The Accountant General,Mysore,Bangalore.
3.The Finance Department (WRS).

Dvsl.

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works & Electricity Department)

Subject:-Tenders for the construction of Almatti Dam - Approval of -

—

Read:-

i) Correspondence ending with letter No.UKP/ALM/59 dated 25-2-1970 from the Chief Engineer, Irrigation Projects (North), Dharwar.

ii) Letter No.PWD 20 CGK 69 dated 18.3.1970 addressed to the Chief Engineer, Irrigation Projects (North), Dharwar.

Preamble:-

It is reported by the Chief Engineer, Irrigation Projects, (North) Dharwar that the tenders were invited for the Almatti Dam limiting the height of the Dam to R.L.1620 in river portion estimated to cost Rs.7.14 Crores. The work was devided into three reaches as under:-

i) Left side nonspill way dam in Earth and Masonry from Ch. 0 to 665 M. upto final height estimated to cost Rs.254.4 lakhs.

ii) Central Portion of Masonry dam mainly comprising spill way and power dam ~~breach~~ from Ch.665 to 1363.5 M. upto partial height of R.L.1620ft. estimated to cost Rs.419.7 lakhs.

iii) Right flank non-spill way masonry dam to the final height from Ch.1363.50 M to 1573 M.estimated to cost Rs.39.97 lakhs.

Separate tenders were invited by the Chief Engineer for all the three reaches under a single Notification dated 5.7.1969. The contractors were also asked to offer their possible rebate if all the three works were entrusted to them.

In all, 9 contractors offered their rates of whom seven have tendered for reach I. Six for reach II and all the nine for reach III. Out of these, five contractors have quoted for all the three reaches, two for reaches I & III, one for reaches II and III and one for reach III alone. Five contractors out of these have putforth various conditions. Evaluating the values of all the tenders with conditions stated, the tender of M/s. Shah Construction Company, Bombay, is the lowest for all the three reaches considered individually and collectively. The evaluated value of their tenders of all the three reaches considered together works out to Rs.666.54 lakhs (6.66% below estimate). The tender amount as per the quoted rates of the firm will be Rs.661.19 lakhs(7.4% below the estimate which will be taken as the tender discount)

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PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

(Public Works & Electricity Department)

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ORDER NO.PWD 20 QUK 69.DATED.BANGALORE MAY.1970.

After considering the matter in all its aspects, the Governor of Mysore has been pleased to accord approval to the acceptance of the tender of M/s. Shah Construction Company Ltd., Bombay for all the three reaches mentioned above which works out to Rs.6,66,54,191/- (Rupees Six Crores Sixty Six Lakhs, Fifty Four Thousand One Hundred Ninety One only) at 6.67% below estimate, subject to the following conditions:

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This order issues with the concurrence of the Finance Department vide their U.O.Note No.1651/70 (WRD)-I dated 20-4-1970.

(S.K.MOHAN)
Under Secretary to Government,
Public Works & Elecy.Department.

To

1. The Chief Engineer, Irrigation Project (North), Dharwar.
2. The Accountant General, Mysore, Bangalore.
3. The Finance Department (WRD).

Tvs1.

1	2	3	4	5	6
					2,24,~~31,505~~/-
29.	1,820 Metres.	Providing and laying porous concrete 0.50 M cubes with a central 20.00 cm. dia. holes as per specifications including cost and conveyance of all materials, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	31-20	One Running Metre.	56,784/-
30.	476 Metres	Providing 16 SWG copper water seals at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding with leads and lifts etc. complete.	433-50	-do-	2,06,346/-
31.	110 Metres	Providing 16 SWG copper water sealing strips at contraction joints including fabricating and placing around the drainage gallery including cost and conveyance of all materials, scaffolding all plant and labour charges, all leads and lifts etc. complete.	209.40	-do-	23,034/-
32.	5,173 Sq.Metres	Providing cement plastering 20 mm thick in C.M. 1:3 proportion on the face of uncoursed rubble masonry adjacent to contraction joints, including cost and conveyance of all materials scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	3.60	One Square Metre	18,623/-
33.	4,900 Cubic Metre/ Kilo Metre	Extra radial lead charges for conveyance of sand, aggregate and rubble from quarries situated beyond the radial limits shown in the respective quarry maps.	0.65	One Cubic Metre/ Kilometre	3,185/-
34.	8,088 Metric Tonnes	Handling of puzzolona including its conveyance from Departmental stock piles, placing in the mixer and mixing it along with other ingredients of cement mortar and placing in the structure.	10.65	One Metric Tonne	86,137/-
					2,28,25,513/—
					~~2,28,40,81~~/-
				Amount of part A	26,15,913
					254,41,426

Note:- Rates quoted above are through rates for finished items inclusive of all royalties, sales tax, Octroi and local taxes wherever applicable and appropriate.

Mk:1/11.

7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2,06,86,173/-		2,04,75,238/-		2,28,97,649/-		2,31,47,686/-		2,61,63,784/-		2,29,75,375/-		2,33,06,592/-
27.00	49,140/-	86.00	1,56,520/-	50.00	91,000/-	60.00	1,09,200/-	80.50	1,46,510/-	30.00	54,600/-	52.00	94,640/-
160/-	76,160/-	570.00	2,71,320/-	390.00	1,85,640/-	500.00	2,38,000/-	644.00	3,06,544/-	325.00	1,54,700/-	500.00	2,38,000/-
160/-	17,600/-	222.00	24,420/-	129.00	14,190/-	250.00	27,500/-	294.00	32,340/-	325.00	35,750/-	250.00	27.500/-
5.00	25,865/-	4.00	20,692/-	5.00	25,865/-	5.00	25,865/-	5.30	27,417/-	4.25	21,985/-	6.00	31,038/-
0.40	1,960/-	0.75	3,675/-	1.75	8,575/-	1.00	4,900/-	0.70	3,430/-	1.00	4,900/-	0.30	1,470/-
32.00	2,58,816/-	10.00	80,880/-	4.00	32,352/-	15.00	1,21,320/-	21.00	1,69,848/-	25.00	2,02,200/-	18.00	1,45,584/-
	2,11,15,714/-		2,10,32,745/-		2,32,55,271/-		2,36,74,471/-		2,68,49,873/-		2,34,49,510/-		2,38,44,824/-
	30,19,882		30,38,447		31,39,421		41,73,896		35,49,489		29,00,501		31,99,664
	241,35,596		240,71,192		263,94,692		278,48,367		303,99,362		263,50,011		270,44,488
	-5.13%		-5.39%		+3.75%		+9.46%		19.49%		+3.57%		+6.30%

Sd/-
Executive Engineer, UKP Dam Dn.
Almatti.

Sd/-
Superintending Engineer, UKPC.
Almatti.

1	2	3	4	5	6
22.	2,17,191 Cubic Metres.	Providing uncoursed rubble stone masonry in C.M.Class B.for hearting of non-spillway dam and entire section of key wall etc, with an average cement content of 160 Kg/Cum of masonry including cost and conveyance of all the materials,labour charges,scaffolding,curing dewatering and river flow diversion with all leads and lifts etc,complete.	76-60	One Cubic Metre	1,66,36,831
23.		Providing and laying cement concrete of designation Ma with a crushing strength of 210 Kg/Sq.cm.at 28 days with graded aggregates of maximum size of 40 mm and with a cement content ~~gakkaryy~~ 315 Kgs per Cum,for around the drainage gallery adits,sluices etc,and in fissures and fault zones in the foundation,and around water seals at contraction joints,wearing coat and pump chamber etc,including cost and conveyance of all materials,form work,maxing,placing,vibrating,compacting curing,dewatering and river flow diversion with all leads and lifts etc,complete.			
	3,089 Cubic Metres	a) For all items except wearing coat	1191 / 1898	One Cubic Metre	1,33,928 / 3,00,453 = 4,34,381
	169 -do-	b) For wearing coat only	112-45 / 158-30	-do-	4,34,381
24.	20 -do- cum)	Providing and laying of cement concrete of designation Mb with a crushing strength of 245 Kgs per Sq.cm.at 28 days with graded aggregate of maximum size upto 20 mm and a cement content,of 442 Kg per cum for block outs etc,including cost and conveyance of all materials,form work,mixing,placing,vibrating,compacting curing,dewatering and river flow diversion with all leads and lifts etc,complete.	112-45	-do-	19,004
25.	11,962 Sq. Metres.	Cement pointing to the u/s face of non-spillway dam with C.M. of 1:2 proportion with addition of water proofing materials including cost and conveyance of all materials(except cost of water proofing compound) scaffolding,curing and dewatering with all leads and lifts etc,complete.	138=00	-do-	2,760
26.	14,403 -do-	Cement pointing to the D/s face of the non-spillway dam with C.M.1:2 proportion including cost and conveyance of all materials scaffolding,curing and dewatering with all leads and lifts etc,complete.	2=95	One Square Metre.	35,288
27.	66 Metric Tonnes.	Providing,fabricating and placing in position mild steel reinforcement for the R.C.C.work including cutting,bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads and lifts etc. complete.	2.95	-do-	42,489
28.	18 -do-	Providing, fabricating and placing in position ribbed steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads and lifts etc. complete.	1288-00	~~do~~ M.T.	85,008
			1388	-do-	24,984
					2,24,34,404

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	REMARKS.
	49,76,825		47,91,196		66,69,351		50,56,409		62,23,910		55,28,889		62,72,614	
69.50	1,50,94,775	69-00	1,49,86,179	72.40	1,57,24,628	80.00	1,73,75,280	88.40	1,91,99,684	77.00	1,67,23,707	75.50	1,63,97,921	
									4,66,439		4,91,151	138.00	4,26,282	
130.00	4,01,570	130.00	4,01,570	114.75	3,54,463	140.00	4,32,460	151.00		159.00				
130.00	21,990	125.00	21,125	98.00	16,562	150.00	25,350	210.00	35,490	159.00	26,871	138.00	23,322	
160.00	3,200	250.00	5,000	184.00	3,680	170.00	3,400	350.00	7,000	135.00	2,700	227.00	4,540	
2.50	29,905	5.50	65,791	1.00	11,962	6.00	71,772	3.00	35,886	4.00	47,848	2.50	29,905	
2.50	36,008	5.50	79,217	1.00	14,403	5.00	72,015	3.00	43,209	3.00	43,209	2.50	36,008	
1430.00	94,380	1460.00	96,360	1200.00	79,200	1300.00	85,800	1771.00	1,16,886	1300.00	85,800	1300.00	85,800	
1530.00	27,540	1600.00	28,800	1300.00	23,400	1400.00	25,200	1960.00	35,280	1400.00	25,200	1400.00	25,200	
	2,06,86,173		2,04,75,238		2,28,97,649		2,31,47,686		2,61,63,784		2,29,75,375		2,33,06,592	

1	2	3	4	5	6
					2,60,603/-
15.	490 Metres.	Flushing for a period upto 30 minutes 80 mm (3") Ø test holes and drainage holes with water and air under required pressure as directed including conducting water test etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	One Running Metre.	7,742/-
16.	19 Metric Tonnes	Grouting with cement slurry in 80 mm (3") Dia. test holes by stage grouting with pressure as directed including cost and conveyance of all materials, dewatering and river flow diversion, with all leads and lifts etc. complete.	346.00	One Metric Tonne	6,574/-
17.	135 Hours	Flushing grout holes and test holes of all diametres for a period in excess of 30 minutes, with water and air under required pressure as directed including conducting water tests; dewatering and river flow diversion with all leads and lifts etc. complete.	67.75	One Hour	9,146/-
18.	207 Insertions	Providing and inserting packers of suitable size in grout holes at specified locations, including all labour, materials etc. complete.	5.75	Each Insertion	1,190/-
19.	5,966 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stone in cement mortar Class-A for upstream face of non-spillway dam with an average cement content of 150 KG per cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc. complete.	103.20	One Cubic Metre	6,15,691/-
20.	11,009 Cubic Metres	Providing uncoursed rubble masonry in cement mortar Class-A adjacent to u/s face stone masonry including cost & conveyance of all materials, labour charges, scaffolding, curing dewatering and river flow diversion with all leads and lifts etc. complete.	87.65	-do-	9,64,939/-
21.	7,193 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stones in cement mortar Class-B for downstream face of non-spillway dam with an average cement content of 120 Kg per cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and riverflow diversion with all leads and lifts etc. complete.	95.20	-do-	6,84,774/-
					51,50,659/-

for non spillway dam with an av. cement content of 200 kg/cum of masonry -

Nk:1/11.

1	2	3	4	5	6
					2,60,603/-
15.	490 Metres.	Flushing for a period upto 30 minutes 80 mm (3") Ø test holes and drainage holes with water and air under required pressure as directed including conducting water test etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	One Running Metre.	7,742/-
16.	19 Metric Tonnes	Grouting with cement slurry in 80 mm (3") Dia. test holes by stage grouting with pressure as directed including cost and conveyance of all materials, dewatering and river flow diversion, with all leads and lifts etc. complete.	346.00	One Metric Tonne	6,574/-
17.	135 Hours	Flushing grout holes and test holes of all diametres for a period in excess of 30 minutes, with water and air under required pressure as directed including conducting water tests; dewatering and river flow diversion with all leads and lifts etc. complete.	67.75	One Hour	9,146/-
18.	207 Insertions	Providing and inserting packers of suitable size in grout holes at specified locations, including all labour, materials etc. complete.	5.75	Each Insertion	1,190/-
19.	5,966 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stone in cement mortar Class-A for upstream face of non-spillway dam with an average cement content of 150 KG per cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc. complete.	103.20	One Cubic Metre	6,15,691/-
20.	11,009 Cubic Metres	Providing uncoursed rubble masonry in cement mortar Class-A adjacent to u/s face stone masonry including cost & conveyance of all materials, labour charges, scaffolding, curing dewatering and river flow diversion with all leads and lifts etc. complete.	87.65	-do-	9,64,939/-
21.	7,193 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stones in cement mortar Class-B for downstream face of non-spillway dam with an average cement content of 120 Kg per cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and riverflow diversion with all leads and lifts etc. complete.	95.20	-do-	6,84,774/-
					51,50,659/-

for non spillway dam with an av. cement content of 200 kg/cum of masonry -

Nk:1/11.

1	2	3		4	5		6
		PART-II:- Constructing Non-spillway cement masonry dam from ch: 405 Metres to Ch: 665 Metres.					
1.	1,53,068 Cubic Metres.	Excavation for foundation of non-spillway dam, key wall etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock, and hard rock boulders upto and including 0.15 cum in volume but excluding hard rock including shoring, strutting, dewatering and river flow diversion and disposing of the excavated stuff or stacking it neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	120724 30181 1730 433 153068	5-45 4-70 5-45 4-70	One cubic Metre.	6,57,946 1,41,851 2,035 9,429 8,11,261	,11,261
2.	63,420 Cubic Metres	Excavation for foundation of Non-spillway dam, key wall etc. in hard rock including hard rock boulders of size more than 0.15 cum. in volume, including shoring, strutting, dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	46301 15434 432 1253 63,420	18.80 17.90 17.90 18.80	-do-	8,70,459 2,76,267 7,733 23,556 11,78,015	11,78,015/
3.	1,785 Cubic Metres	Excavation for foundation of non-spillway dam, key wall etc. in hard rock by line drilling, wedging or barring without resorting to blasting including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts & with a maximum lead of 150 M beyond the edges of excavation.	1693 92 1785	44-70 44-70	-do-		79,790/
4.	11,470 Sq.Metres	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of non-spillway dam, key wall etc. cleaning and washing the bed including dewatering, river flow diversion with all leads and lifts for disposing the stuff as directed.		5-95	One Square Metre		68,247/
5.	125 Nos.	Providing and fixing 32 mm (1¼") Ø ribbed steel dowel bars 3.70 M long embedded 1.85 M into hard rock, for the foundation bed of non-spillway dam including drilling holes in hard rock, cutting rods, grouting with C.M. 1:1 including dewatering and river flow diversion with all leads and lifts etc. complete including cost of steel.		119.00	Each No.		14,875
6.		Drilling curtain grout holes of 45 mm (1-7/8") diametre vertical or inclined upto 10° to the vertical, in rock, concrete or masonry from the drainage gallery by percussion drills as directed in stages, including dewatering with all leads and lifts etc. complete.					
	1,750 Metres	i) 0 to 10 Metres		45.60	One Running Metre		79,80
	1,750 ,,	ii) 10 to 20 Metres		48.00	-do-		84,00
	908 ,,	iii) 20 to 30 Metres		50.20	-do-		45,58
							23,61,57

7	8	9	10	11	12	13	14	15	16	17	18	19	20
7.40	11,32,703/-	5.00	7,65,340/-	00	15,30,680/	8.00	12,24,544/-	7.90	12,09,237/-	6.00	9,18,408/-	10.00	15,30,680/-
16.00	10,14,720/-	18.00	11,41,560/-	00	18,39,180/	12.00	7,61,040/-	19.40	12,30,348/-	22.00	13,95,240/-	21.00	13,31,820/-
19.00	33,915/-	80.00	1,42,800/-	00	62,475	30.00	53,550/-	49.40	88,179/-	35.00	62,475/-	23.50	41,948/-
2.50	28,675/-	5.00	57,350/-	00	1,14,700	10.00	1,14,700/-	7.50	86,025/-	5.00	57,350/-	5.00	57,350/-
80.00	10,000/-	110.00	13,750/-	00	6,250/-	100/-	12,500/-	71.40	8,925/-	100/-	12,500/-	88.00	11,000/-
40.00	70,000/-	30.00	52,500/-	00	1,05,000	60.00	1,05,000/-	61.10	1,06,925/-	45.00	78,750/-	44.00	77,000/-
50.00	87,500/-	50.00	87,500/-	00	1,13,750	65.00	1,13,750/-	67.95	1,18,913/-	55.00	96,250/-	48.00	84,000/-
60.00	54,480/-	75.00	68,100/-	00	63,560	70.00	63,560/-	78.10	70,915/-	60.00	54,480/-	52.00	47,216/
	24,31,993/-		23,28,900/		8,35,595/-		24,48,644/-		29,19,467/-		26,75,453/-		31,81,014/-

1	2	3		4	5		6
		PART-II:- Constructing Non-spillway cement masonry dam from ch: 405 Metres to Ch: 665 Metres.					
1.	1,53,068 Cubic Metres.	Excavation for foundation of non-spillway dam, key wall etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock, and hard rock boulders upto and including 0.15 cum in volume but excluding hard rock including shoring, strutting, dewatering and river flow diversion and disposing of the excavated stuff or stacking it neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	120724 30181 1730 433 153068	5-45 4-70 5-45 4-70	One cubic Metre.	6,57,946 1,41,851 2,035 9,429 8,11,261	8,11,261/-
2.	63,420 Cubic Metres	Excavation for foundation of Non-spillway dam, key wall etc. in hard rock including hard rock boulders of size more than 0.15 cum. in volume, including shoring, strutting, dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	46301 15434 432 1253 63,420	18.80 17.90 17.90 18.80	-do-	8,70,459 2,76,267 7,733 23,556 11,78,015	11,78,015/-
3.	1,785 Cubic Metres	Excavation for foundation of non-spillway dam, key wall etc. in hard rock by line drilling, wedging or barring without resorting to blasting including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts & with a maximum lead of 150 M beyond the edges of excavation.	1693 92 1785	44-70 44-70	-do-		79,790/-
4.	11,470 Sq.Metres	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of non-spillway dam, key wall etc. cleaning and washing the bed including dewatering, river flow diversion with all leads and lifts for disposing the stuff as directed.		5-95	One Square Metre		68,247/-
5.	125 Nos.	Providing and fixing 32 mm (1¼") Ø ribbed steel dowel bars 3.70 M long embedded 1.85 M into hard rock, for the foundation bed of non-spillway dam including drilling holes in hard rock, cutting rods, grouting with C.M. 1:1 including dewatering and river flow diversion with all leads and lifts etc. complete including cost of steel.		119.00	Each No.		14,875/-
6.		Drilling curtain grout holes of 45 mm (1-7/8") diametre vertical or inclined upto 10° to the vertical, in rock, concrete or masonry from the drainage gallery by percussion drills as directed in stages, including dewatering with all leads and lifts etc. complete.					
	1,750 Metres	i) 0 to 10 Metres		45.60	One Running Metre		79,80/-
	1,750 ,,	ii) 10 to 20 Metres		48.00	-do-		84,00/-
	908 ,,	iii) 20 to 30 Metres		50.20	-do-		45,58/-
							3,01,57

1	2	3	4	5	6
19.	5,850 Cubic Metres.	Extra radial lead charges for the conveyance of sand aggregate, rubble and casing and hearting materials from quarries situated beyond the radial limits shown in the respective quarry maps.	0.95	One cubic Metre/ Kilo-Metre.	26,10,355 ~~5,265~~ 5,558 ~~26,15,621~~ 26,15,913

1		2		3		4		5		6		7		8
ate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	REMARKS
	30,17,542		30,34,059		31,29,183		41,68,946		35,45,394		28,94,651		31,97,324	
0.40	2,340	0.75	4,388	1.75	10,238	1.00	5,850	0.70	4,095	1.00	5,850	0.40	2,340	
	30,19,882		30,38,447		31,39,421		41,73,896		35,49,489		29,00,501		31,99,664	

7	8	9	10	11	12	13	14	15	16	17	18	19	20
8.50	11,99,945/-	7.00	9,88,190/-	7.10	10,02,307/-	10.00	14,11,700/-	7.40	10,44,558/-	8.00	11,29,360/-	7.20	10,16,424/-
6.00	2,16,000/-	6.00	2,16,000/-	4.00	1,44,000/-	9.00	3,24,000/-	5.70	2,05,200/-	2.50	90,000/-	5.00	1,80,000/-
6.00	2,16,000	6.25	2,25,000/-	4.00	1,44,000/-	10.00	3,60,000/-	6.20	2,23,200/-	3.00	1,08,000/-	5.00	1,80,000/-
15.00	1,12,935/-	32.10	2,41,681/-	25.00	1,88,225/-	25.00	1,88,225/-	32.10	2,41,681/-	27.00	2,03,283/-	29/-	2,18,341/-
14.00	74,480/-	20.40	1,08,528/-	30.00	1,59,600/-	20.00	1,06,400/-	29.20	1,28,744/-	15.00	79,800/-	23.00	1,22,360/-
12.00	1,64,040/-	29.00	3,96,430/-	30.00	4,10,100/-	40.00	5,46,800/-	34.90	4,77,083/-	30.00	4,10,100/-	30.00	4,10,100/-
16.00	20,144/-	22.50	28,328/-	25.00	31,475/-	25.00	31,475/-	31.10	39,154/-	20.00	25,180/-	29.00	36,511/-
18.00	5,472/-	6.20	1,884/-	8.00	2,432/-	20.00	6,080/-	16.10	4,894/-	10.00	3,040/-	12.00	3,648/-
1.20	15,772/-	4.00	52,572/-	1.00	13,143/-	1.00	13,143/-	14.00	1,84,002/-	1.50	19,714/-	5.00	65,715/-
	30,17,542/-		30,34,059/-		31,29,183/-		41,68,046/-		35,45,394/-		28,94,651/-		31,97,324/-

1	2	3	4	5	6
5.	130 Metric Tonnes.	Curtain grouting with cement slurry in the drilled grout holes of 45 mm.(1-7/8) Ø and 80mm (3") Ø test holes,by stage grouting with required pressure,as directed including cost and conveyance of all materials dewatering etc, with all leads and lifts etc,complete.	346/-	One metric Tonne	2,75,963/- 44,980/-
6.	~~In metres.~~	Drilling 80 mm (3") Ø holes by percussion method for installing upheaval gauges,including cost and conveyance of all materials dewatering etc.,with all leads and lifts etc,complete.			
	19 Metres.	0 - 10 Metres.	104/-	One Running Metre.	1,976/-
	10 Metres.	10 - 20 Metres.	109/-	One Running Metre.	1,090/-
			~~116/-~~	One Running Metre.	~~1,150/-~~
7.	139 Metres.	Drilling NX size approximately 80 mm.(3") Ødiamond core test holes,vertical or inclined upto 10^0 to vertical as directed in rock or embankment including water tests,dewatering etc.,complete.	253/-	One Running Metre.	35,167/-
8.	55 Insertions.	Providing and inserting packers in grout holes at specified locations including all labour,materials,etc.,complete.	5.75	Each insertion.	316/-
9.	33 Hours.	Flushing grout holes and test holes of all diameters in excess of 30 minutes with water and air under required pressure as directed including conducting water test dewatering with all leads and lifts etc.,complete.	67.75	One hour.	2,236/-
10(a)	30,835 Cubic Metres.	Providing impervious hearting for Dam Embankment and cut off with selected materials from approved borrow areas including all operations such as excavation,sorting,transportation,dozing,breaking clods,sectioning,wateringand compaction to the required density as directed including all leads and lifts for materials and including dewatering etc.,complete.	7.10	One cubic Metre	2,18,929/-
10(b)	24,000 Cubic Metres.	Providing impervious hearting for Dam Embankment with selected materials available from foundation Excavation including all operations such as re-excavation if necessary,rehandling,sorting,transportation,dozing,breaking clods,sectioning,watering and compaction to the required density as directed with all leads and lifts for materials and including dewatering if any etc.,complete.	4.05	One cubic Metre	97,200/-
					6,77,857

1		2		3		4		5		6		7		8
Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	REMARKS
~~400.00~~ 400.00	4,58,729 52,000	400.00	3,34,869 52,000	280.00	5,80,230 36,400	300.00	4,98,981 39,000	462.00	5,23,682 60,060	350.00	3,91,940 45,500	350.00	5,06,290 45,500	
65.00	1,235	63.00	1,197	150.00	2,850	70.00	1,330	96.50	1,834	100.00	1,900	112.00	2,128	
90.00	900	83.00	830	200.00	2,000	120.00	1,200	110.20	1,102	110.00	1,100	122.00	1,220	
155.00	21,545	105.00	14,595	280.00	38,920	178.00	24,742	390.30	54,252	275.00	38,225	300.00	41,700	
70.00	3,850	50.00	2,750	10.00	550	60.00	3,300	35.00	1,925	8.00	440	10.00	550	
65.00	2,145	50.00	1,650	60.00	1,980	50.00	1,650	70.00	2,310	80.00	2,640	25.00	825	
10.00	3,08,350	7.25	2,23,554	7.75	2,38,971	12.00	3,70,020	7.20	2,22,012	6.50	2,00,428	7.20	2,22,012	
6.00	1,44,000	6.00	1,44,000	5.50	1,32,000	10.00	2,40,000	5.40	1,29,600	6.00	1,44,000	6.00	1,44,000	
	9,92,754		7,75,445		10,33,901		11,80,223		9,96,777		8,26,173		9,64,225	

UPPER KRISHNA PROJECT.
CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER NEAR ALMATTI VILLAGE
TALUKA BAGEWADI, DISTRICT BIJAPUR.

Name of work:- Constructing Almatti Dam across Krishna River - Earthen Dam from Ch. 0 Metre to Ch: 405 metres and Non-Spillway Cement Masonry Dam from Ch: 405 Meters to Ch. 665 Metres including Foundation Excavation, Foundation Treatment and all other appurtenant works.

SCHEDULE 'B'

Memorandum showing the items of work to be carried out.

Item No.	Quantity estimated (may be more or less)	Items of work.	Estimated Tendered rate In figures	Tendered rate In words.	Unit	Amount	
1	2	3		4	5	6	
		Part I:- Constructing Earthen Dam from Ch: 0 Metres to Ch: 405 Metres.					
1.	44,615 Cubic Metres.	Excavation for foundation of Dam, cut off trench, drains etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock and removal of hard rock boulders upto and including 0.15 Cum. in volume but excluding hard rock requiring blasting including shoring, strutting, dewatering etc. and disposing the excavated stuff or stacking neatly as directed beyond the toes of Dam with all lifts and with a maximum lead of 120 M. beyond the centre line of Dam.	20440 5118 360 145 403 1611 2000 499 10200 2534 44615	2-65 2-25 2-25 2-75 2-30 2-90 2-90 2-30 4-75 3-75	One Cubic Metre	54,166/- 11,555/- 810/- 3,988/- 927/- 4,672/- 5,800/- 1,148/- 48,455/- 9,502/-	1,41,020/-
2.	3,183 Cubic Metres.	Excavation for foundation of Dam, cut off trench drains etc. in hard rock requiring blasting including removal of boulders of more than 0.15 cum. in volume, including shoring, strutting, dewatering and disposing the excavated stuff or stacking neatly as directed beyond the toes of Dam, with all lifts and with a maximum lead of 120 M. from the centre line of Dam.	2400 783 3,183	14-60 14-05	-do-	35,040/- 11,001/- 46,041/-	46,041/-
3.		Drilling by percussion method curtain grout holes of 45 mm (1-7/8") ø vertical or inclined upto 10° to vertical in rock as directed in stages including dewatering etc. complete.					
	1,067 Metres	0-10 Metres		45-60	One Running Metre.		48,655/-
	325 Metres	10-20 Metres		48-00	-do-		15,600/-
4.	1,560 Metres	Flushing upto 30 minutes the above grout holes of 45 mm (1-7/8") ø and 80 mm (3") ø test holes with water and then by air under required pressure as directed including conducting water tests etc. and dewatering with all leads and lifts etc.complet		15-80	-do-		24,648/-
							2,75,963/-

Result I

s. Shah Constn.Co.Ltd. Bombay.		M/s.Continental Co. New Delhi-3		Shri U.Subbarao Vijaya-wada.		M/s.Shankar Narayan Constn.Co. Bangalore		M/s.Hindustan Constn. Co. Bombay		M/s.G.J.Fernandes, Bombay.		M/s. Mysore State Constn. Corporation Bangalore.		meJI .oM
te	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	I
7	8	9	10	11	12=	13	14	15	16	17	18	19	20	
														.1
7-40	3,30,151/-	5-00	2,23,075/-	9-00	4,01,535	8-00	3,56,920/.	7-91	3,52,905/-	5-00	2,23,075	8-00	3,56,920	
														.2
8-00	50,928/-	18-00	57,294/-	25-00	79,575/-	12-00	38,196/-	19-40	61,750/-	25-00	79,575	20-00	63,660	
														.3
0-00	42,680/-	30-00	32,010/-	60-00	64,020/-	60-00	64,020/-	61-00	65,087/-	45-00	48,015	40-00	42,680	
0-00	16,250/-	50-00	16,250/-	60-00	19,500/-	65-00	21,125/-	68-00	22,100/-	55-00	17,875	46-00	14,950	
														.4
8-00	18,720/-	4-00	6,240/-	10-00	15,600/-	12-00	18,720/-	14-00	21,840/-	15-00	23,400	18-00	28,080	
	4,58,729/-		3,34,869/-		5,80,230/-		4,98,981/-		5,23,682/-		3,91,940/-		5,06,290	

STATEMENT SHOWING THE TENDERED AMOUNTS AND ESTIMATED AMOUNTS ETC. IN RESPECT OF ALMATTI DAM WORKS.

Name of the Firm	Reach No.	Estimated Cost	Amount based on Tender Rates.	Dewatering charges.	Interest charges @6% on Rs.10,00,000 advance against guarantee	Interest charges @6% on Rs.15.00 lakhs Advance.	Rebate due to useful rubble.	Evaluated Amount.	Special Rebate	Net Evaluated estimated amount.
1	2	3	4	5	6	7	8	9	10	11	12
1. M/s. Shah Construction Company.	I	254,44,426	241,35,596	+66,600	+47,040	+70,560	-33,333	242,86,463	-2,41,356	240,45,107
	II	419,70,426	389,84,230	+278,000	+77,590	+116,385	-95,812	393,60,393	-3,89,842	389,70,551
	III	39,97,033	36,67,452	+5,400	+7,370	+11,055	-16,666	36,74,611	-36,675	36,37,936
	Total:	714,08,885	667,87,278	+350,000	+132,000	+198,000	-145,811	673,21,467	-6,67,873	666,53,594
	Rebate 1%		6,67,873							-6.66%
			661,19,405 -7.41%							
2. M/s. Continental Construction Pvt. Ltd.	I	254,44,426	240,71,192	-	+47,040	+70,560	-	241,88,792	-	241,88,792
	II	419,70,426	392,87,796	-	+77,590	+116,385	-	394,81,771	-	394,81,771
	III	39,97,033	36,73,759	-	+7,370	+11,055	-	36,92,184	-	36,92,184
	Total	714,08,885	670,32,747 -6.13%		+132,000	+198,000		673,62,747		673,62,747 -5.67%
3. M/s. V.Subbarao Vijayawada	I	254,44,426	268,94,642 +3.75%	-	Advance not asked		-	268,94,642	-	268,94,642 +3.75%
	II	419,70,426	Not quoted	-	~~Advance not asked~~		-	-	-	-
	III	39,97,033	39,11,013 -2.15%	-	Advance not asked		-	39,11,013	-	39,11,013 -2.15%
	Total	714,08,885								
4. M/s.Hindustan Construction Co.	I	254,44,426	303,99,362	-	Advance not asked	+70,560	-	304,69,922	-	304,69,922
	II	419,70,426	447,09,028	-		+116,385	-	448,25,413	-	448,25,413
	III	39,97,033	46,36,422	-		+11,055	-	46,47,477	-	46,47,477
	Total	714,08,885	797,44,812 +11.67%	-	-	+198,000	-	799,42,812	-	799,42,812 +11.95%
5. M/s. G.J.Fernandes Seconderabad	I	254,44,426	263,50,011 +3.57%	-	Advance not asked		-	263,50,011	-	263,50,011 +3.57%
	II	419,70,426	Not quoted	-	~~Advance not asked~~		-	-	-	-
	III	39,97,033	40,38,259 +1.03%	-	Advance not asked		-	40,38,259	-	40,38,259 +1.03%
	Total	714,08,885								
6. M/s. R.N.Shetty, Sirsi	I	254,41,426	Not quoted	-	-	-	-	-	-	-
	II	419,70,426	Not quoted	-	-	-	-	-	-	-
	III	39,97,033	44,82,167 +12.11%	-	Advance not asked		-	44,82,167	-	44,82,167 +12.11%
	Total	714.08.885								

	M/s. Shankara-narayana Construction Co. Bangalore.	I	254,41,426	278,48,367	-	Advance not asked		-	278,48,367	-278,484	275,69,883
		II	419,70,426	457,91,413	-	-do-		-	457,91,413	-457,914	453,33,499
		III	39,97,033	43,49,050	-	- do -	-	-	43,49,050	-43,490	43,05,560
		Total	714,08,885	779,88,830					779,88,830	-779,888	772,08,942
		Rebate		7,79,888							+8.12%
				772,08,942							
				+8.12%							
8.	M/s.Mysore State Construction Co. Ltd. Bangalore.	I	254,41,426	270,44,488	-	+47,040	Advance not asked	-	270,91,528	-540,890	265,50,638
		II	419,70,426	442,03,781	-	+77,590		-	442,81,371	-884,076	433,97,295
		III	39,97,033	40,74,407	-	+7,370	do.	-	40,81,777	-81,488	40,00,289
		Total	714,08,885	753,22,676		+1,32,000			754,54,676	-15,06,454	739,48,222
		Rebate.		15,06,454							+ 3.56%
				738,16,222							
				+3.37%							
9.	M/s. N.P.C.C. New Delhi	I	254,41,426	Not quoted	-	-	-	-	-	-	
		II	419,70,426	421,60,912	-	+77,590	Advance not asked	-	422,37,602	-	422,37,602
				+0.45%							+0.68%
		III	39,97,033	41,92,625	-	+ 7,370	do.	-	41,99,995	-	41,99,995
				+4.89%							
		Total	714,08,885			+84,960					+5.08%

The offers of M/s. Shah Construction Co. Ltd. Bombay amounting to Rs. 66$,19,405 (based on tendered rates) and Rs. 666,53,594 (evaluated amount) for all the three reaches being the lowest, among all the tenders and percentage premium being 7.41% below estimate (on tendered amount) and 6.66% below estimate (based on evaluated amount) are recommended for acceptance.

Chief Engineer, P.W.D.,
Irrigation (North), Dharwar.

Nk:1/12.

STATEMENT SHOWING THE TENDERED AMOUNTS AND ESTIMATED AMOUNTS ETC. IN RESPECT OF ALMATTI DAM WORKS.

Name of the Firm	Reach No.	Estimated Cost	Amount based on Tender Rates.	Dewatering charges.	Interest charges on @6% Rs.10,00,000 advance against guarantee	Interest charges on @6% Rs.15.00 lakhs Advance.	Rebate due to useful rubble.	Evaluated Amount.	Special Rebate	Net Evaluated estimated amount.
1	2	3	4	5	6	7	8	9	10	11	12
1. M/s. Shah Construction Company.	I	254,44,426	241,35,596	+66,600	+47,040	+70,560	-33,333	242,86,463	-2,41,356	240,45,107
	II	419,70,426	389,84,230	+278,000	+77,590	+116,385	-95,812	393,60,393	-3,89,842	389,70,551
	III	39,97,033	36,67,452	+5,400	+7,370	+11,055	-16,666	36,74,611	-36,675	36,37,936
	Total:	714,08,885	667,87,278	+350,000	+132,000	+198,000	-145,811	673,21,467	-6,67,873	666,53,594
	Rebate 1%		6,67,873							-6.66%
			661,19,405 -7.41%							
2. M/s. Continental Construction Pvt. Ltd.	I	254,44,426	240,71,192	-	+47,040	+70,560	-	241,88,792	-	241,88,792
	II	419,70,426	392,87,796	-	+77,590	+116,385	-	394,81,771	-	394,81,771
	III	39,97,033	36,73,759	-	+7,370	+11,055	-	36,92,184	-	36,92,184
	Total	714,08,885	670,32,747 -6.13%		+132,000	+198,000		673,62,747		673,62,747 -5.67%
3. M/s. V.Subbarao Vijayawada	I	254,44,426	268,94,642 +3.75%	-	Advance not asked.		-	268,94,642	-	268,94,642 +3.75%
	II	419,70,426	Not quoted	-	~~Advance not asked~~		-	-	-	-
	III	39,97,033	39,11,013 -2.15%	-	Advance not asked.		-	39,11,013	-	39,11,013 -2.15%
	Total	714,08,885								
4. M/s.Hindustan Construction Co.	I	254,44,426	303,99,362	-	Advance not asked	+70,560	-	304,69,922	-	304,69,922
	II	419,70,426	447,09,028	-		+116,385	-	448,25,413	-	448,25,413
	III	39,97,033	46,36,422	-	do.	+11,055	-	46,47,477	-	46,47,477
	Total	714,08,885	797,44,812 +11.67%	-	-	+198,000	-	799,42,812	-	799,42,812 +11.95%
5. M/s. G.J.Fernandes Seconderabad	I	254,44,426	263,50,011 +3.57%	-	Advance not asked		-	263,50,011	-	263,50,011 +3.57%
	II	419,70,426	Not quoted	-	~~Advance not asked~~		-	-	-	-
	III	39,97,033	40,38,259 +1.03%	-	Advance not asked.		-	40,38,259	-	40,38,259 +1.03%
	Total	714,08,885								
6. M/s. R.N.Shetty, Sirsi	I	254,41,426	Not quoted	-	-	-	-	-	-	-
	II	419,70,426	Not quoted	-	-	-	-	-	-	-
	III	39,97,033	44,82,167 +12.11%	-	Advance not asked		-	44,82,167	-	44,82,167 +12.11%
	Total	714,08,885								

STATEMENT SHOWING THE TENDERED AMOUNTS AND ESTIMATED AMOUNTS ETC. IN RESPECT OF ALMATTI DAM WORKS.

Sl. No.	Name of the Firm	Reach No.	Estimated Cost	Amount based on Tender Rates.	Dewatering charges.	Interest charges on ₹10,00,000 advance against guarantee	Interest charges on Rs.15.00 lakhs Advance.	Rebate due to useful rubble.	Evaluated Amount.	Special Rebate	Net estimated amount.
1	2	3	4	5	6	7	8	9	10	11	12
1.	M/s. Shah Construction Company.	I	254,44,426	241,35,596	+66,660	+47,040	+70,560	-33,333	242,86,463	-2,41,356	240,45,107
		II	419,70,426	389,84,230	+278,000	+77,590	+116,385	-95,812	393,60,393	-3,89,842	389,70,551
		III	39,97,033	36,67,452	+5,400	+7,370	+11,055	-16,666	36,74,611	-36,675	36,37,936
		Total:	714,08,885	667,87,278	+350,000	+132,000	+198,000	-145,811	673,21,467	-6,67,873	666,53,594
		Rebate 1%		6,67,873							-6.66%
				661,19,405 -7.41%							
2.	M/s. Continental Construction Pvt. Ltd.	I	254,44,426	240,71,192	-	±47,040	+70,560	-	241,88,792	-	241,88,792
		II	419,70,426	392,87,796	-	+77,590	+116,385	-	394,81,771	-	394,81,771
		III	39,97,033	36,73,759	-	+7,370	+11,055	-	36,92,184	-	36,92,184
		Total	714,03,885	670,32,747 -6.13%		+132,000	+193,000		673,62,747		673,62,747 -5.67%
3.	M/s. V.Subbarao Vijayawada	I	254,44,426	268,94,642 +3.75%	-	Advance not asked		-	268,94,642	-	268,94,642 +3.75%
		II	419,70,426	Not quoted	-	Advance not asked		-	-	-	-
		III	39,97,033	39,11,013 -2.15%	-	- advance not asked -		-	39,11,013	-	39,11,013 -2.15%
		Total	714,08,885								
4.	M/s.Hindustan Construction Co.	I	254,44,426	303,99,362	-	Advance not asked -	+70,560	-	304,69,922	-	304,69,922
		II	419,70,426	447,09,028	-		+116,385	-	448,25,413	-	448,25,413
		III	39,97,033	46,36,422	-		+11,055	-	46,47,477	-	46,47,477
		Total	714,08,885	797,44,812 +11.67%	-	-	+198,000	-	799,42,812	-	799,42,812 +11.95%
5.	M/s. G.J.Fernandes Seconderabad	I	254,44,426	263,50,011 +3.57%	-	Advance not asked		-	263,50,011	-	263,50,011 +3.57%
		II	419,70,426	Not quoted	-	Advance not asked		-	-	-	-
		III	39,97,033	40,38,259 +1.03%	-	- advance not asked -		-	40,38,259	-	40,38,259 +1.03%
		Total	714,09,885								
6.	M/s. R.N.Shetty, Sirsi	I	254,41,426	Not quoted	-	-	-	-	-	-	-
		II	419,70,426	Not quoted	-	-	-	-	-	-	-
		III	39,97,033	44,82,167 +12.11%	-	Advance not asked		-	44,82,167	-	44,82,167 +12.11%

1	2	3		4	5		6
		PART-II:- Constructing Non-spillway cement masonry dam from ch: 405 Metres to Ch: 665 Metres.					
1.	1,53,068 Cubic Metres.	Excavation for foundation of non-spillway dam, key wall etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock, and hard rock boulders upto and including 0.15 cum in volume but excluding hard rock including shoring, strutting, dewatering and river flow diversion and disposing of the excavated stuff or stacking it neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	120724 30181 1730 433 153068	5-45 4-70 5-45 4-70	One cubic Metre.	6,57,946 1,41,851 2,035 9,429 8,11,261	8,11,261/-
2.	63,420 Cubic Metres	Excavation for foundation of Non-spillway dam, key wall etc. in hard rock including hard rock boulders of size more than 0.15 cum. in volume, including shoring, strutting, dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	46301 15434 432 1253 63,420	18.80 17.90 17.90 18.80	-do-	8,70,459 2,76,267 7,733 23,556 11,78,015	11,78,015/-
3.	1,785 Cubic Metres	Excavation for foundation of non-spillway dam, key wall etc. in hard rock by line drilling, wedging or barring without resorting to blasting including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts & with a maximum lead of 150 M beyond the edges of excavation.	1693 92 1785	44-70 44-70	-do-		79,790/-
4.	11,470 Sq.Metres	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of non-spillway dam, key wall etc. cleaning and washing the bed including dewatering, river flow diversion with all leads and lifts for disposing the stuff as directed.		5-95	One Square Metre		68,247/-
5.	125 Nos.	Providing and fixing 32 mm (1¼") Ø ribbed steel dowel bars 3.70 M long embedded 1.85 M into hard rock, for the foundation bed of non-spillway dam including drilling holes in hard rock, cutting rods, grouting with C.M. 1:1 including dewatering and river flow diversion with all leads and lifts etc. complete including cost of steel.		119.00	Each No-		14,875/-
6.		Drilling curtain grout holes of 45 mm (1-7/8") diametre vertical or inclined upto 10° to the vertical, in rock, concrete or masonry from the drainage gallery by percussion drills as directed in stages, including dewatering with all leads and lifts etc. complete.					
	1,750 Metres	i) 0 to 10 Metres		45.60	One Running Metre		79,800/-
	1,750 ,,	ii) 10 to 20 Metres		48.00	-do-		84,000/-
	908 ,,	iii) 20 to 30 Metres		50.20	-do-		45,582/-
							23,61,570/-

8	9	10	11	12	13	14	15	16	17	18	19	20
7.40	11,32,703/-	5.00	7,65,340/-	10.00	15,30,680/	8.00	12,24,544/-	7.90	12,09,237/-	6.00	9,18,408/-	10.00	15,30,680/-
16.00	10,14,720/-	18.00	11,41,560/-	29.00	18,39,180/	12.00	7,61,040/-	19.40	12,30,348/-	22.00	13,95,240/-	21.00	13,31,820/-
19.00	33,915/-	80.00	1,42,800/-	35.00	62,475	30.00	53,550/-	49.40	88,179/-	35.00	62,475/-	23.50	41,948/-
2.50	28,675/-	5.00	57,350/-	10.00	1,14,700	10.00	1,14,700/-	7.50	86,025/-	5.00	57,350/-	5.00	57,350/-
80.00	10,000/-	110.00	13,750/-	50.00	6,250/-	100/-	12,500/-	71.40	8,925/-	100/-	12,500/-	88.00	11,000/-
40.00	70,000/-	30.00	52,500/-	60.00	1,05,000	60.00	1,05,000/-	61.10	1,06,925/-	45.00	78,750/-	44.00	77,000/-
[illegible].00	87,500/-	50.00	87,500/-	65.00	1,13,750	65.00	1,13,750/-	67.95	1,18,913/-	55.00	96,250/-	48.00	84,000/-
[illegible].00	54,480/-	75.00	68,100/-	70.00	63,560	70.00	63,560/-	78.10	70,915/-	60.00	54,480/-	52.00	47,216/
	24,31,993/-		23,28,900/-		38,35,595/-		24,48,644/-		29,19,467/-		26,75,453/-		31,81,014/-

7	8	9	10	11	12	13	14	15	16	17	18	19	20
7.40	11,32,703/-	5.00	7,65,340/-	10.00	15,30,680/	8.00	12,24,544/-	7.90	12,09,237½-	6.00	9,18,408/-	10.00	15,30,680/-
16.00	10,14,720/-	18.00	11,41,560/-	29.00	18,39,180/	12.00	7,61,040/-	19.40	12,30,348½-	22.00	13,95,240/-	21.00	13,31,820/-
19.00	33,915/-	80.00	1,42,800/-	35.00	62,475	30.00	53.550/-	49.40	88,179½-	35.00	62,475/-	23.50	41,948/-
2.50	28,675/-	5.00	57,350/-	10.00	1,14,700	10.00	1,14,700/-	7.50	6,025½-	5.00	57,350/-	5.00	57,350/-
80.00	10,000/-	110.00	13,750/-	50.00	6,250/-	100/-	12,500/-	71.40	8,924½-	100/-	12,500/-	88.00	11,000/-
.00	70,000/-	30.00	52,500/-	60.00	1,05,000	60.00	1,05,000/-	61.10	1,06,925½-	45.00	78,750/-	44.00	77,000/-
.00	87,500/-	50.00	87,500/-	65.00	1,13,750	65.00	1,13,750/-	67.95	1,18,913½-	55.00	96,250/-	48.00	84,000/-
:00	54,480/-	75.00	68,100/-	70.00	63,560	70.00	63,560/-	78.10	70,915½-	60.00	54,480/-	52.00	47,216/
	24,31,993/-		23,28,900/-		38,35,695/-		24,48,644/-		29,19,467½-		26,75,453/-		31,81,014/-

1	2	3	4	5		6
		PART-II:- Constructing Non-spillway cement masonry dam from ch: 405 Metres to Ch: 665 Metres.				
1.	1,53,068 Cubic Metres.	Excavation for foundation of non-spillway dam, key wall etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock, and hard rock boulders upto and including 0.15 cum in volume but excluding hard rock including shoring, strutting, dewatering and river flow diversion and disposing of the excavated stuff or stacking it neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	120724 30181 1730 433 153368	5-45 4-70 5-45 4-70	One cubic Metre.	6,57,946 1,41,851 2,035 9,429 8,11,261	8,11,261/-
2.	63,420 Cubic Metres	Excavation for foundation of Non-spillway dam, key wall etc. in hard rock including hard rock boulders of size more than 0.15 cum. in volume, including shoring, strutting, dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 150 M beyond the edges of excavation.	46301 15434 432 1253 63,420	18.80 17.90 17.90 18.80	-do-	8,70,459 2,76,267 7,733 23,556 11,78,015	11,78,015/-
3.	1,785 Cubic Metres	Excavation for foundation of non-spillway dam, key wall etc. in hard rock by line drilling, wedging or barring without resorting to blasting including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts & with a maximum lead of 150 M beyond the edges of excavation.	1693 92 1785	44-70 44-70	-do-		79,790/-
4.	11,470 Sq.Metres	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of non-spillway dam, key wall etc. cleaning and washing the bed including dewatering, river flow diversion with all leads and lifts for disposing the stuff as directed.		5-95	One Square Metre		68,247/-
5.	125 Nos.	Providing and fixing 32 mm (1¼") Ø ribbed steel dowel bars 3.70 M long embedded 1.85 M into hard rock, for the foundation bed of non-spillway dam including drilling holes in hard rock, cutting rods, grouting with C.M. 1:1 including dewatering and river flow diversion with all leads and lifts etc. complete including cost of steel.		119.00	Each No.		14,875/-
6.		Drilling curtain grout holes of 45 mm (1-7/8") diametre vertical or inclined upto 10° to the vertical, in rock, concrete or masonry from the drainage gallery by percussion drills as directed in stages, including dewatering with all leads and lifts etc. complete.					
	1,750 Metres	i) 0 to 10 Metres		45.60	One Running Metre		79,800/-
	1,750 ,,	ii) 10 to 20 Metres		48.00	-do-		84,000/-
	908 ,,	iii) 20 to 30 Metres		50.20	-do-		45,582/-
							23,61,570/-

1	2	3	4		5	6
22.	2,17,191 Cubic Metres.	Providing uncoursed rubble stone masonry in C.M.Class B.for hearting of non-spillway dam and entire section of key wall etc, with an average cement content of 160 Kg/Cum of masonry including cost and conveyance of all the materials,labour charges,scaffolding,curing dewatering and river flow diversion with all leads and lifts etc,complete.		Rs 76-60	One Cubic Metre	51,50,659 1,66,36,831
23.		Providing and laying cement concrete of designation Ma with a crushing strength of 210 Kg/Sq.cm.at 28 days with graded aggregates of maximum size of 40 mm and with a cement content ~~gakkexyy~~ 315 Kgs per Cum,for around the drainage gallery adits,sluices etc,and in fissures and fault zones in the foundation,and around water seals at contraction joints,wearing coat and pump chamber etc,including cost and conveyance of all materials,form work,maxing,placing,vibrating,compacting curing,dewatering and river flow diversion with all leads and lifts etc,complete.				
	3,089 Cubic Metres	a) For all items except wearing coat	1191 1898	112-45 158-30	One Cubic Metre	1,33,928 3,00,453 4,34,381
	169 -do-	b) For wearing coat only		112-45	-do-	19,004
24.	20 -do- cum	Providing and laying of cement concrete of designation Mb with a crushing strength of 245 Kgs per Sq.cm.at 28 days with graded aggregate of maximum size upto 20 mm and a cement content,of 442 Kg per cum for block outs etc,including cost and conveyance of all materials,form work,mixing,placing,vibrating,compacting curing,dewatering and river flow diversion with all leads and lifts etc,complete.		138-00 ~~265405~~	-do-	2760 ~~5,301~~
25.	11,962 Sq. Metres.	Cement pointing to the u/s face of non-spillway dam with C.M. of 1:2 proportion with addition of water proofing materials including cost and conveyance of all materials(except cost of water proofing compound) scaffolding,curing and dewatering with all leads and lifts etc,complete.		2-95 ~~4.00~~	One Square Metre.	35,288 ~~47,848~~
26.	14,403 -do-	Cement pointing to the D/s face of the non-spillway dam with C.M.1:2 proportion including cost and conveyance of all materials scaffolding,curing and dewatering with all leads and lifts etc,complete.		2.95	-do-	42,489
27.	66 Metric Tonnes.	Providing,fabricating and placing in position mild steel reinforcement for the R.C.C.work including cutting,bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads and lifts etc. complete.		1288-00	do M.T.	85,008
28.	18 -do-	Providing, fabricating and placing in position ribbed steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads and lifts etc. complete.		1388	-do-	24,984
						~~2,24,36,406~~

7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	REMA
	49,76,825		47,91,196		66,69,351		50,56,409		62,23,910		55,28,889		62,72,614	
69.50	1,50,94,775	69-00	1,49,86,179	72.40	1,57,24,628	80.00	1,73,75,280	88.40	1,91,99,684	77.00	1,67,23,707	75.50	1,63,97,921	
									4,66,439		4,91,151	138.00	4,26,282	
130.00	4,01,570	130.00	4,01,570	114.75	3,54,462	140.00	4,32,460	151.00		159.00				
130.00	21,970	125.00	21,125	98.00	16,562	150.00	25,350	210.00	35,490	159.00	26,871	138.00	23,322	
160.00	3,200	250.00	5,000	184.00	3,680	170.00	3,400	350.00	7,000	135.00	2,700	227.00	4,540	
2.50	29,905	5.50	65,791	1.00	11,962	6.00	71,772	3.00	35,886	4.00	47,848	2.50	29,905	
2.50	36,008	5.50	79,217	1.00	14,403	5.00	72,015	3.00	43,209	3.00	43,209	2.50	36,008	
1430.00	94,380	1460.00	96,360	1200.00	79,200	1300.00	85,800	1771.00	1,16,886	1300.00	85,800	1300.00	85,800	
1530.00	27,540	1600.00	28,800	1300.00	23,400	1400.00	25,200	1960.00	35,280	1400.00	25,200	1400.00	25,200	
2,06,86,173		2,04,75,238		2,28,97,649		2,31,47,686		2,61,63,784		2,29,75,375		2,33,06,592		

1	2	3	4	5	6
					20,60,603/-
15.	430 Metres.	Flushing for a period upto 30 minutes 80 mm (3") Ø test holes and drainage holes with water and air under required pressure as directed including conducting water test etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	One Running Metre.	7,742/-
16.	19 Metric Tonnes	Grouting with cement slurry in 80 mm (3") Dia. test holes by stage grouting with pressure as directed including cost and conveyance of all materials, dewatering and river flow diversion, with all leads and lifts etc. complete.	346.00	One Metric Tonne	6,574/-
17.	135 Hours	Flushing grout holes and test holes of all diametres for a period in excess of 30 minutes, with water and air under required pressure as directed including conducting water tests; dewatering and river flow diversion with all leads and lifts etc. complete.	5x25 67175	One Hour	9,146/-
18.	207 Insertions	Providing and inserting packers of suitable size in grout holes at specified locations, including all labour, materials etc. complete.	5.75	Each Insertion	1,190/-
19.	5,966 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stone in cement mortar Class-A for upstream face of non-spillway dam with an average cement content of 150 KG per cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc. complete.	103.20	One Cubic Metre	6,15,691/-
20.	11,009 Cubic Metres	Providing uncoursed rubble masonry in cement mortar Class-A adjacent to u/s face stone masonry* including cost & conveyance of all materials, labour charges, scaffolding, curing dewatering and river flow diversion with all leads and lifts etc. complete.	87.65	-do-	9,64,939/-
21.	7,193 Cubic Metres	Providing face stone masonry with chisel drafted hammer dressed face stones in cement mortar Class-B for downstream face of non-spillway dam with an average cement content of 120 Kg per cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and riverflow diversion with all leads and lifts etc. complete.	95.20	-do-	6,84,774/-
					51,50,659/-

* for nonspill dam with an av. cement content of 200 kg/cum of masonry.

Nk:1/11.

	8	9	10	11	12	13	14	15	16	17	18	19	20
	28,44,977/-		26,87,129/-		42,90,145/-		27,88,425/-		34,12,355/-		31,91,108/-		37,20,258/-
[redacted]5.00	7,350/-	5.00	2,450/-	10.00	4,900/-	12.00	5,880/-	14.00	6,360/-	15.00	7,350/-	25.50	12,495/-
[redacted]00/-	7,600/-	400/-	7,600/-	300/-	5,700/-	300/-	5,700/-	462/-	8,778/-	350/-	6,650/-	350/-	6,650/-
[redacted]5.00	8,775/-	50.00	6,750/-	60.00	8,100/-	50.00	6,750/-	70.00	9,450/-	80.00	10,800/-	24.00	3,240/-
[redacted]0.00	14,490/-	50.00	10,350/-	10.00	2,070/-	60.00	12,420/-	35.00	7,245/-	8.00	1,656/-	10.00	2,070/-
[redacted]6.00	5,72,736/-	90.00	5,36,940/-	103.50	6,47,311/-	98.00	5,84,668/-	133/-	7,93,478/-	110/-	6,56,260/-	127/-	7,57,682/-
[redacted]0.00	8,80,720/-	85.00	9,35,765/-	87.25	9,60,535/-	90.00	9,90,810/-	98.20	10,81,084/-	85.00	9,35,765/-	83.50	9,19,252/-
[redacted]9.00	6,40,177/-	84.00	6,04,212/-	104.35	7,50,590/-	92.00	6,61,756/-	125.70	9,04,160/-	100.00	7,19,300/-	119.00	8,55,967/-
	49,76,825/-		47,91,196/-		66,69,351/-		50,56,409/-		62,29,910/-		55,28,889/-		62,77,614/-

1	2	3	4	5	6
7.	4,408 Metres.	Flushing for a period upto 30 minutes the curtain grount holes of 45 mm (1-7/8") dia with water and air under required pressure, as directed including conducting water tests etc. and dewatering with all leads and lifts etc. complete.	15.80	One Running Metre	69,646-00
8.	367 Metric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45 mm (1-7/8") Ø by stage grouting with pressure as directed, including cost and conveyance of all materials, dewatering and river flow diversion, with all leads and lifts etc. complete.	346	One Metric Tnne.	26,982-00
9.	1863 Metres.	Drilling consolidation grout holes of 35 mm (1-3/8") dia. vertical or inclined upto 10° to the vertical in rock, concrete or masonry by percussion drills as directed in stages including dewatering and river flow diversion with all leads and lifts etc. complete. 0 - 10 metres.	45.60	One Running Metre.	84,953-00
10.	1863 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35 mm (1-3/8") Ø with water and air under required pressureas directed including conducting water tests etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	One Running Metre.	29,435-00
11.	156 Metric Tonnes	Consolidation grouting with cement slurry in the above drilled holes of 35 mm. (1-3/8") Ø under pressure, as directed and including cost and conveyance of all materials, including dewatering and river flow diversion with all leads and lifts etc. complete.	346/-	One Metric Tonne.	53,976-00
12.	1863 Metres.	Providing and fixing black M.S.Pies of approved quality 50 mm internal dia in length varying from 3 metres to 8 metres on the foundation bed of non-spillway dam, key wall etc., including cost and conveyance of all materials, providing screw caps and jointing etc. complete including, dewatering and river flow diversion with all leads and lifts etc. complete.	27.00	One Running Metre.	50,301-00
13.	270 Metres.	Drilling 80 mm (3") Ø drainage holes by percussion drill from the dr drainage gallery, vertical or inclined upto 10° to the vertical as directed, in rock, concrete or masonry, including dewatering and river flow diversion complete with all leads and lifts etc. complete.	104/-	One Running Metre.	28,080-00
14.	220 metres.	Drilling NX size 80 mm (3") dia. diamond core test holes vertical or k inclined as directed in rock, concrete or masonry, including conducting water tests dewatering, etc. complete.	253/-	One Running Metre.	55,660-00

7	8	9	10	11	12	13	14	15	16	17	18	19	20
10.00	44,080-00	4-00	17,632	10.00	44,080	12-00	52,896	7-00	30,856	15-00	66,120	19.00	83,752
400.00	146,800-00	400-00	146,800-00	300-00	110,100	300-00	110,100	462-00	169,554	350-00	128,450	350-00	128,450
36.00	67,068	25-00	46,575	60-00	111,780	40-00	74,520	20.70	38,564 38,566-	50-00	93,150	43.00	80,107
10.00	18,630	4-00	7,452	10-00	18,630	12-00	22,356	7-00	13,041	15-00	27,945	19.00	35,397
400-00	62,400	400-00	62,400	300-00	46,800	300-00	46,800	462-00	72,072	350-00	54,600	350-00	54,600
12-00	22,356	20.00	37.260	20.00	37,260	15.00	27,945	30.80	57,380	30.00	55,890	32.00	59,616
65.00	17,550	63.00	17,010	90.00	24,300	70.00	18,900	96.50	26.055	100.00	27,000	116.00	31,320
155.00	34,100	105.00	23,100	280.00	61,600	178.00	39.160	390.30	85,866	275.00	60,500	300.00	66,000

1	2	3	4	5	6
					2,24,34,405/-
29.	1,820 Metres.	Providing and laying porous concrete 0.50 M cubes with a central 20.00 cm. dia. holes as per specifications including cost and conveyance of all materials, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	31-20	One Running Metre.	56,784/-
30.	476 Metres	Providing 16 SWG copper water seals at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding with leads and lifts etc. complete.	433-50	Ic-	2,06,346/-
31.	110 Metres	Providing 16 SWG copper water sealing strips at contraction joints including fabricating and placing around the drainage gallery including cost and conveyance of all materials, scaffolding all plant and labour charges, all leads and lifts etc. complete.	209.40	-do-	23,034/-
32.	5,173 Sq.Metres	Providing cement plastering 20 mm thick in C.M. 1:3 proportion on the face of uncoursed rubble masonry adjacent to contraction joints, including cost and conveyance of all materials scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	3.60	One Square Metre	18,623/-
33.	4,900 Cubic Metre/ Kilo Metre	Extra radial lead charges for conveyance of sand, aggregate and rubble from quarries situated beyond the radial limits shown in the respective quarry maps.	0.65	One Cubic Metre/ Kilometre	3,185/-
34.	8,083 Metric Tonnes	Handling of puzzolona including its conveyance from Departmental stock piles, placing in the mixer and mixing it along with other ingredients of cement mortar and placing in the structure.	10.65	One Metric Tonne	86,137/-
					2,28,25,513
				Amount of part 'A'	26,15,913
					254,41,426

Note:- Rates quoted above are through rates for finished items inclusive of all royalties, sales tax, Octroi and local taxes wherever applicable and appropriate.

Mk:1/11.

UPPER KRISHNA PROJECT.
CONSTRUCTING ALMATTI DAM ACROSS KRISHNA RIVER NEAR ALMATTI VILLAGE
TALUKA BAGEWADI, DISTRICT BIJAPUR.

Name of work:- Constructing Almatti Dam across Krishna River - Earthen Dam from Ch. 0 Metre to Ch: 405 metres and Non-Spillway Cement Masonry Dam from Ch: 405 Meters to Ch. 665 Metres including Foundation Excavation, Foundation Treatment and all other appurtenant works.

SCHEDULE 'B'

Memorandum showing the items of work to be carried out.

Item No.	Quantity estimated (may be more or less)	Items of work.	Estimated Tendered rate In figures	In words.	Unit	Amount	
1	2	3	4		5	6	
		Part I:- Constructing Earthen Dam from Ch: 0 Metres to Ch: 405 Metres.					
1.	44,615 Cubic Metres.	Excavation for foundation of Dam, cut off trench, drains etc. in all kinds of soils, disintegrated rock, fissured rock, soft rock and removal of hard rock boulders upto and including 0.15 Cum. in volume but excluding hard rock requiring blasting including shoring, strutting, dewatering etc. and disposing the excavated stuff or stacking neatly as directed beyond the toes of Dam with all lifts and with a maximum lead of 120 M. beyond the centre line of Dam.	20440 2-65 5118 2-25 360 2-25 145 2-75 403 2-30 1611 2-90 2000 2-90 499 2-30 10200 4-75 2534 3-75 44615		One Rock Cubic Metre	54,166/- 11,555/- 810/- 3,988/- 927/- 4,672/- 5,800/- 1,148/- 48,456/- 9,502/-	1,41,029
2.	3,183 Cubic Metres.	Excavation for foundation of Dam, cut off trench drains etc. in hard rock requiring blasting including removal of boulders of more than 0.15 cum. in volume, including shoring, strutting, dewatering and disposing the excavated stuff or stacking neatly as directed beyond the toes of Dam, with all lifts and with a maximum lead of 120 M. from the centre line of Dam.	2400 14-60 783 14-05 3,183		-do-	35,040/- 11,001/- 46,041/-	46,041
3.	1,067 Metres	Drilling by percussion method curtain grout holes of 45 mm (1-7/8") Ø vertical or inclined upto 10° to vertical in rock as directed in stages including dewatering etc. complete.		45-60	One Running Metre.		48,1
	325 Metres	0-10 Metres		18-00	-do-		15,1
4.	1,560 Metres	10-20 Metres Flushing upto 30 minutes the above grout holes of 45 mm (1-7/8") Ø and 80 mm (3") Ø test holes with water and then by air under required pressure as directed including conducting water tests etc. and dewatering with all leads and lifts etc.complete.		15-80	-do-		24,1
							2,75

Reach I

M/s. Shah Constn.Co.Ltd. Bombay.		M/s.Contingental Co. New Delhi-3		Shri U.Subbarao Vijaya-wada.		M/s.Shankar Naraya-yan Constn.Co. Bangalore		M/s.Hindustan Constn. Co. Bombay		M/s.G.J.Fernan-des, Bombay.		M/s. Mysore State Constn. Corporation Bangalore.	
Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
7	8	9	10	11	12=	13	14	15	16	17	18	19	20
/-	7-40	3,30,151/-	5-00	2,23,075/-	9-00	4,01,535	8-00	3,56,920/.	7-91	3,52,904/-	5-00	2,23,075	8-00	3,56,920
/-	16-00	50,928/-	18-00	57,294/-	25-00	79,575/-	12-00	38,196/-	19-40	61,750/-	25-00	79,575	20-00	63,660
5/-	40-00	42,680/-	30-00	32,010/-	60-00	64,020/-	60-00	64,020/-	61-00	65,087/-	45-00	48,015	40-00	42,680
)/-	50-00	16,250/-	50-00	16,250/-	60-00	19,500/-	65-00	21,125/-	68-00	22,100/-	55-00	17,875	46-00	14,950
/-	12-00	18,720/-	4-00	6,240/-	10-00	15,600/-	12-00	18,720/-	14-00	21,840/-	15-00	23,400	18-00	28,080
/-		4,58,729/-		3,34,869/-		5,80,230/-		4,98,881/-		5,23,682/-		3,91,940/-		5,06,290

	1		2		3		4		5		6		7		8
ate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	ate	Amount	Rate	Amount	REMARKS
[illegible] 0.00	4,58,729 52,000	400.00	3,34,869 52,000	280.00	5,80,230 36.400	300.00	4,88,981 39,000	462.00	5,23,682 60.060	350.00	3,91,940 45,500	350.00	5,06,290 45,500	
5.00	1,235	63.00	1,197	150.00	2,850	70.00	1,330	96.50	1,834	100.00	1,900	112.00	2,128	
0.00	900	83.00	830	200.00	2,000	120.00	1,200	110.20	1,102	110.00	1,100	122.00	1,220	
5.00	21,545	105.00	14,595	280.00	38,920	178.00	24,742	390.30	54,252	275.00	38,225	300.00	41,700	
0.00	3,850	50.00	2,750	10.00	550	60.00	3,300	35.00	1,925	8.00	440	10.00	550	
5.00	2,145	50.00	1,650	60.00	1,980	50.00	1,650	70.00	2,310	80.00	2.640	25.00	825	
00	3,08,350	7.25	2,23,554	7.75	2,38,971	12.00	3,70,020	7.20	2,22,012	6.50	2.00.428	7.20	2.22.012	
0	1,44,000	6.00	1,44,000	5.50	1,32,000	10.00	2,40,000	5.40	1,29,600	6.00	1,44,000	6.00	1,44,000	
	9,92,754		7,75,445		10,33,901		11,80,223		9,96,777		8,26,173		9,64,225	

1	2	3	4	5	6
5.	130 Metric Tonnes.	Curtain grouting with cement slurry in the drilled grout holes of 45 mm.(1-7/8) Ø and 80mm (3") Ø test holes,by stage grouting with required pressure,as directed including cost and conveyance of all materials dewatering etc, with all leads and lifts etc,complete.	346/-	One metric Tonne	2,75,962/- 44,980/-
6.	~~12~~ ~~metres.~~	Drilling 80 mm (3") Ø holes by percussion method for installing upheaval gauges,including cost and conveyance of all materials dewatering etc.,with all leads and lifts etc,complete.			
	19 Metres.	0 - 10 Metres.	104/-	One Running Metre.	1,976/-
	10 Metres.	10 - 20 Metres.	109/-	One Running Metre.	1,090/-
			~~115/-~~	One Running Metre.	~~1,150/-~~
7.	139 Metres.	Drilling NX size approximately 80 mm.(3") Ødiamond core test holes,vertical or inclined upto 10° to vertical as directed in rock or embankment including water tests,dewatering etc.,complete.	253/-	One Running Metre.	35,167/-
8.	55 Insertions.	Providing and inserting packers in grout holes at specified locations including all labour,materials,etc.,complete.	5.75	Each insertion.	316/-
9.	33 Hours.	Flushing grout holes and test holes of all diameters in excess of 30 minutes with water and air under required pressure as directed including conducting water test dewatering with all leads and lifts etc.,complete.	67.75	One hour.	2,236/-
10(a)	30,835 Cubic Metres.	Providing impervious hearting for Dam Embankment and cut off with selected materials from approved borrow areas including all operations such as excavation,sorting,transportation,dozing,breaking clods,sectioning,wateringand compaction to the required density as directed including all leads and lifts for materials and including dewatering etc.,complete.	7.10	One cubic Metre	2,18,929/-
10(b)	24,000 Cubic Metres.	Providing impervious hearting for Dam Embankment with selected materials available from foundation Excavation including all operations such as re-excavation if necessary,rehandling,sorting,transportation,dozing,breaking clods,sectioning,watering and compaction to the required density as directed with all leads and lifts for materials and including dewatering if any etc.,complete.	4.05	One cubic Metre	97,200/-
					6,77,85~~7~~

7	8	9	10	11	12	13	14	15	16	17	18	19	20
8.50	1,99,945/-	7.00	9,88,190/-	7.10	10,02,307/-	10.00	14,11,700/-	7.40	10,44,658/-	8.00	11,29,360/-	7.20	10,16,424/-
6.00	2,16,000/-	6.00	2,16,000/-	4.00	1,44,000/-	9.00	3,24,000/-	5.70	2,05,200/-	2.50	90,000/-	5.00	1,80,000/-
6.00	2,16,000	6.25	2,25,000/-	4.00	1,44,000/-	10.00	3,60,000/-	6.20	2,23,200/-	3.00	1,08,000/-	5.00	1,80,000/-
15.00	1,12,935/-	32.10	2,41,681/-	25.00	1,88,225/-	25.00	1,88,225/-	32.10	2,41,681/-	27.00	2,03,283/-	29/-	2,18,341/-
14.00	74,480/-	20.40	1,08,528/-	30.00	1,59,600/-	20.00	1,06,400/-	29.20	1,28,744/-	15.00	79,800/-	23.00	1,22,360/-
12.00	1,64,040/-	29.00	3,96,430/-	30.00	4,10,100/-	40.00	5,46,800/-	34.90	4,77,083/-	30.00	4,10,100/-	30.00	4,10,100/-
16.00	20,144/-	22.50	28,328/-	25.00	31,475/-	25.00	31,475/-	31.10	39,155/-	20.00	25,180/-	29.00	36,511/-
18.00	5,472/-	6.20	1,884/-	8.00	2,432/-	20.00	6,080/-	16.10	4,894/-	10.00	3,040/-	12.00	3,648/-
1.20	15,772/-	4.00	52,572/-	1.00	13,143/-	1.00	13,143/-	14.00	1,84,002/-	1.50	19,715/-	5.00	65,715/-
	30,17,542/-		30,34,059/-		31,29,183/-		41,68,046/-		35,45,394/-		28,94,651/-		31,97,324/-

1	2	3	4		5		6
11.	1,41,170 Cubic Metres.	Providing casing for Dam Embankment with pervious or semi-pervious soils with selected materials from approved borrow areas including all operations such as excavation, sorting, transportation, dozing, breaking clods, sectioning, watering and compaction to the required density as directed including all leads and lifts for materials and including dewatering if any etc. complete.	7-00		One Cubic Metre.		9,88,190/-
12.		Providing casing for the Dam embankment with pervious or semipervious soils with selected materials available from foundation excavation and other sources including all operations such as re-excavation if necessary, rehandling, sorting, transportation, dozing breaking clods, sectioning, watering and compaction to the required density as directed with all leads and lifts for materials and including dewatering, if any etc. complete.					
	36,000 Cubic Metres	a) Using available materials in the reach put to tender (0 M - 665 M)	2-70		-do-		97,200/-
	36,000 -do-	b) Using materials from the old spoil available adjacent to dam site	4-05		-do-		1,45,800/-
13.	7,528 -do-	Constructing graded filter media in Dam embankment for transition filter, inclined filter along rock toe longitudinal drain at the toe of transition filter and embankment and filter blanket below rock toe with selected materials from approved sources including compaction with all leads and lifts etc. complete for finished work.	21-20 20-70 20-75 20-80 19-35	4420 711 806 1041 551 7529	-do-	93,704 14,718 16,725 21,653 10,662	1,57,462/-
~~12.~~ 14.	~~5,320~~ 5,320 -do-	Constructing dry rubble rock toe with rubble stones from approved sources with all leads and lifts including placing, hand packing, compacting etc. complete for finished work.	18-95		-do-		1,00,814/-
15.	13,670 Sq.Metres	Constructing hand packed revetment 60 cm. thick including through stones at a rate of one for every 0.5 sq.metre for the upstream face of the Dam over a backing of 45 cm thick zoned filter with selected materials from approved sources including all leads and lifts etc. complete for finished work.	27-00		One Square Metre		3,69,090/-
16.	1,259 Cubic Metres	Constructing cross drains with zoned filter media, with selected materials from approved sources including all leads and lifts etc. complete.	19-35		One Cubic Metre		24,362/-
17.	304 Metres	Constructing dry rubble stone gutter 25 cm deep with a bottom width of 45 cm with 1:1 side slope using selected stones including all leads and lifts etc. complete.	7-45		One Running Metre		2,265/-
18.	13,143 Sq.Metres	Providing turfing with Hariyali grass for the downstream slope of the embankment including watering etc. complete.	3.60		One Sq.Metre		47,315/-
							26,10,356/-

1	2	3	4	5	6
19.	5,850 Cubic Metres.	Extra radial lead charges for the conveyance of sand aggregate, rubble and casing and hearting materials from quarries situated beyond the radial limits shown in the respective quarry maps.	0.99	One cubic Metre/ Kilo-Metre.	26,10,356 ~~5,265~~ 5,558 ~~26,15,621~~ 26,15,913

1		2		3		4		5		6		7		REMARKS
Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
	30,17,642		30,34,059		31,29,183		41,68,046		35,45,394		28,94,651		31,97,324	
0.40	2,340	0.75	4,388	1.75	10,238	1.00	5,850	0.70	4,096	1.00	5,850	0.40	2,340	
	30,19,982		30,38,447		31,39,421		41,73,896		35,49,489		29,00,501		31,99,664	

Upper Krishna Project.

Constructing Almatti Dam across Krishna River Near Almatti Village, Bagewadi Taluka Dist., Bijapur.

Name of work: Constructing Almatti Dam across Krishna River - Spillway Cement masonry Dam from Chainage 665 Metres to chainage 1363.5 Metres including foundation excavation. foundation treatment and all other appurtenant works, but excluding crest gates.

Schedule 'B'.

Memorandum showing the items of works to be carried out.

Item No.	Quantity estimated (may be more or less).	Items of work.	Tendered rates Estimated Rate.	Unit.	Amount.	Shaha Const. Co.Ltd., Bombay Rate.	Shaha Const. Co.Ltd., Bombay Amount.	Continental Delhi Rate.	Continental Delhi Amount.
1	2	3	4	5	6	7	8	9	10
		CONSTRUCTING SPILLWAY CEMENT MASONRY DAM FROM 665 Metres to 1363.5 Metres.							
1.	202461 Cubic Metres. Excavation in soils 174316 U.L. 18579 U.F. Spillway & R.T. XXXXXXXXXX Stilling basin. 87653 U.L. 21913 U.F. 202461	Excavation for foundation of spillway dam, spillway bucket, stilling basin and training walls etc., in all kinds of soils, disintegrated rock, fissured rock, soft rock, xxfx and hard rock boulders upto and including 0.15 Cum. in volume but excluding hard rock, including shoring, strutting, dewatering, and river flow diversion and disposing off the excavated staff or stacking it neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation .	5.35 5.30 and 6.00 5.40	One cubic metre.	397590-60 98468-70 525918-00 118330-20 1140307-50	8-00	1619688/-	5-10	1032551/-
2.	326781 Cubic metres. Sp.W. 105500 U.F. 35167 U.L. 139585 U.F. 46529 U.L. 326781	Excavation for foundation of spillway dam spillway bucket, stilling basin and training walls etc. in hard rock including hard rock boulders of size more than 0.15 Cum. in volume including shoring, strutting, dewatering and river flow diversion and disposing the the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation.	16.95 16.70 18.50 16.90	-do-	1788225-00 587288-90 2582322-50 786340-10 5744176-50	17-00	5555277	18-00	5882058/-
3.	10246 Cubic metres. 4720 U.F. 5526 U.L.	Excavation for foundation of spillway dam, spillway bucket, stilling basin, training walls etc. in hard rock, by line drilling wedging or barring without resorting to blasting, including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation.	44.30 42.80 44=25	-do-	209096-00 236619-80 244527 215222 445608-80	20	204920/-	80/-	819680/-
4.	69840 Sq.metres.	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of spillway dam, spillway bucket, stilling basin and training walls etc. cleaning and washing the bed including dewatering and river flow diversion with all leads and lifts for disposing the stuff as directed	5-90	One Square Metre.	412056/-	2-50	174600/-	5/-	349200/-
5.	25225 Nos.	Providing and fixing 32 mm (1¼") dia. ribbed steel dowel bars 3.70 M long embedded 1.85 M in hard rock for the foundation bed of spillway, Dam and spillway bucket, stilling basin, training walls etc. including drilling holes in hard rock, cutting rods, grouting with cement hard rock cutting dewatering and ri		Each		80/-	2018000/-	110	2774750/-

Reach II

Mysore State Construction Co.Bangalore		Hindustan Construction Co.Bombay.		M/s.Shanker Narayan Construction Co.		National Project Construction Co.,Delhi.		REMARKS.
Rate 11	Amount 12	Rate 13	Amount 14	Rate 15	Amount 16	Rate 17	Amount 18	19
p 10.00	20,24,610/-	6-84	13,84,833-2[illegible]	4-00	8,09,844	9-00	18,22,14[illegible]/-	
25.00	81,69,525/-	15.60	50,97,783.6[illegible]	25.00	81,69,525/-	20.00.	65,35,620/-	
28.00	2,86,888/-	49.40	5,06,152.4[illegible]	30.00	3,07,380/-	30.00	3,07,380/-	
5.00	3,49,200/-	7.53	5,25,895.2[illegible]	10.00	6,98,400/-	4.00	2,79,360/-	
88.00	22,19,800/-	67.20	16,95,12[illegible]	85.00	21,44,125/-	70.00	17,65,750/-	

1	2	3	4	5	6	7	8	10
		Drilling curtain grout holes of 45 mm (1-7/8") dia. vertical or inclined upto 10° to the vertical in rock or concrete or masonry from the drainage gallery by percussion drills as ~~XXXXXXXXXXXXXXX~~ directed in stages including dewatering with all leads and lifts etc. complete.						
	4660 Metres	i) 0 to 10 metres.	45-60	One Running metre.	212496/-	40/-	186400/-	3398
	4660 Metres.	ii) 10 metres to 20 metres.	48-00	-do-	223680/-	50/-	233000/-	5333
	1890 Metres.	iii) 20 metres to 30 metres.	50-20	-do-	94878/-	60/-	113400	7[illegible]175
7.	11210 Metres.	Flushing for a period upto 30 minutes the curtain grout holes of 45 mm (1-7/8") dia. with water and air under required pressure as directed, including conducting water tests etc. and dewatering with all leads and lifts etc. complete.	15-80	-do-	177188/-	10	112100/-	4[illegible]840
8.	934 Metaric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45 mm (1-7/8") dia. by stage grouting with pressure as directed, including cost and x conveyance of all materials, dewatering with all leads and lifts etc. complete.	346/-	One Metric Tonne.	323164/-	400	373600/-	4373
9.		Drilling consolidation grout holes of 35 mm (1-3/8") dia. vertical or inclined upto 10° to the vertical in rock or concrete or masonry by percussion drills, as directed, in stages, including dewatering and river flow diversion with all leads and lifts etc. complete.						
	11486 Metres	0 to 10 metres.	45.60	One Running metre.	523761-60	36	413496/-	2[illegible]871
	11486 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35 mm (1-3/8") dia. with water and air under required pressure as directed including conducting water tests etc., and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	-do-	181478-80	10	114860/-	[illegible]4 4594
11.	957 Metric Tonnes.	Consolidation grouting with cement slurry in the above drilled holes of 35 mm (1-3/8") dia. under pressure as directed and including cost and conveyance of all materials including dewatering and river flow diversion, with all leads and lifts etc. complete.	346/-	One Metric Tonne.	331122/-	400	382800/-	[illegible]0 3828
12.	5076 Metres.	Providing and fixing black mild steel pipes of approved quality 50 mm internal dia. (2") in lengths varying from 3 metres to 8 metres above the foundation bed of spillway and spillway bucket including cost and conveyance of all materials, providing screw caps and jointing etc. complete including dewatering and river flow diversion with all leads and lifts etc. complete.	27/-	One running metre.	137052	12	60922/-	[illegible]0 101

	11	12	13	14	15	16	17	18
)/-	44.00	2,05,040/-	51.90	2,41,854/-	60.00	2,79,600/-	47.00	2,19,020/-
)/-	48.00	2,23,680/-	58.80	2,74,008/-	65.00	3,02,900/-	54.00	2,51,640/-
)/-	52.00	98,280/-	68.90	1,30,221/-	70.00	1,32,300/-	60.00	1,13,400
/-	19.00	2,12,990/-	7.00	78,470/-	12.00	1,34,520/-	5.00	56,050/-
0/-	350.00	3,26,900/-	462.00	4,31,508/-	300.00	2,80,200/-	400.00	3,73,600/-
	43.00	4,93,898	18.40	2,11,342-40	40.00	4,59,440/-	30.00	3,44,51[illegible]/-
[illegible]	19.00	2,18,234/-	7.00	80,402/-	12.00	1,37,832/-	5.00	57,430/-
[illegible]	350.00	3,34,950/-	462.00	4,42,134/-	300.00	2,87,100/-	340.00	3,25,380
	32.00	1,62,432/-	31.00	1,57,356/-	15.00	76,140/-	20.00	1,01,520/-

		12	13	14	15	16	17	18
,643.10		1,53,26,427		1,[illegible],57,079.84		1,42,19,306		1,25,52,817
,770	116.00	91,640	91.80	72,522	70.00	55,300	100.00	79,000
,800	300.00	1,68,000	390.00	1,18,400	178.00	99,680	300.00	1,68,000
,750	25.50	34,425	14.00	18,900	12.00	16,200	10.00	six 13,500
,800	350.00	16,450	462.00	21,714	300.00	14,100	340.00	15,980
,400	10.00	5,280	35.00	18,480	60.00	31,680	25.00	13,200
,500	24.00	9,840	70.00	28,700	50.00	20,500	50.00	20,500
,670	127.00	4,77,901	132.90	5,00,102-70	100.00	3,76,300.00	133.00	5,00,479.00
,70	84.00	5,89,848	98.20	6,89,560.40	93.00	6,53,046.00	82.50	5,79,315.00
,8	119.00	2,09,678	125.80	2,21,659.60	92.00	1,62,104.00	130.00	2,29,060.00
.10		1,69,29,489		1,30,47,117.84		1,56,48,216		1,41,71,851

1	2	3	4	5	6	7	8	9	10
					1,28,48,672-60		1,15,63,053		1,26,08
13.	790 Metres.	Drilling 80 mm (3") dia. drainage holes by percussion drill from the drainage gallery vertical or inclined, upto 10o to vertical as directed, in rock, concrete or masonry including dewatering with all leads and lifts etc. complete.	104.00	One Running Metre	82,160	65.00	51,350	63.00	49
14.	560 Metres	Drilling NX size 80 mm (3") dia. Diamond Core test holes vertical or inclined as directed in rock, concrete or masonry including water tests, dewatering, with all leads and lifts etc. complete	253.00	-do-	1,41,680	155.00	86,800	105.00	58
15.	~~Flushing~~ 1,350 Metres	Flushing for a period upto 30 minutes the above test holes of 80 mm (3") dia. with water and air under required pressure as directed including conducting water tests etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	-do-	21,330	15.00	20,250	5.00	6
16.	47 Metric Tonnes	Grouting with cement slurry in the above drilled test holes of 80 mm (3") dia. under pressure in stages as directed, including cost and conveyance of materials and including dewatering and river flow diversion with all leads and lifts etc. complete.	346.00	One Metric Tonne	16,262	400.00	18,800	400.00	18
17.	528 Insertions	Providing and inserting packers of suitable size in grout holes at specified locations including all labour, materials etc. complete.	5.75	Each insertion	3,036	70.00	36,960	50.00	26
18.	410 Hours	Flushing grout holes and test holes of all diameters for period in excess of 30 minutes with water and air under required pressure as directed, including conducting water tests, dewatering and river flow diversion with all leads and lifts etc. complete.	67.75	One Hour	27,777-50	65.00	26,650	50.00	20
19.	3,763 Cubic Metres.	Providing face stone masonry with chisel drafted hammer dressed face stones in cement mortar class "A" for Upstream face of Dam with an average cement content of 150 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts.etc. complete.							
	Spillway 2255 N.S.P. 233 Non Spill 887 Power block 388 3763		103.15 103.15 104.30 103.35	One Cubic Metre	2,32,603 24,034 92,514 40,100 3,89,251	100.00	3,76,300	90.00	3,38
20.	7,022 -do-	Providing uncoursed rubble stone masonry in cement mortar class "A" adjacent to upstream face stone masonry of Dam with an average cement content of 200 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads & lifts etc.complete.							
	Spillway 4032 N.S.P. 429 Non Spill 1848 Power block 713 7022		87.00 87.00 88.25 87.20	-do-	3,50,784 37,383 1,63,086 62,174 6,13,367	82.00	5,75,804	85.00	5,96
21.	1,762 -do-	Providing face stone masonry using chisel drafted hammer dressed face stones in cement mortar Class "B" for down-stream face of the two end blocks of the spillway dam with an average cement content of 120 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads & lifts etc.complete.							
	P. 302 N.Spill 939 P.P. 521 1762		94.80 96.00 95.00	-do-	28,630 90,144 49,445 1,68,219	92.00	1,62,104	84.00	1,48
					~~1,43,03,190-85~~ 1,43,03,190-85		1,29,18,071		~~1,38,73~~ 1,38,73

1	2	3	4	5	6	7	8	9	10
22.	750 Cubic Metres.	Providing face stone masonry using chisel dressed stones in cement mortar class "B" for the water surface of training walls with an average cement content of 120 Kg/Cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion etc. complete.	104-95	One cubic metre.	78712-50	92	69000/-	84	6300
23.	219065 Cubic Metres Spl 137762 N.S.P. 14212 Non-spill 27958 Power 26275 R.T.wall 12858 219065	Providing uncoursed rubble stone masonry in cement mortar class 'B' hearting of Dam, training walls etc. with an average cement content of 160 Kg/Cum. of monry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc.	76.35 76.35 77.20 76.20 76.70	-do-	1,05,18,129 10,85,086 21,58,358 20,02,155 9,86,209 1,67,49,937	74	16210810/-	69	1511
24.	9229 Sq.Metres.	Cement pointing to the upstream face of dam, and training walls with C.M. 1:2 prop. with addition of water proofing materials including cost and conveyance of all materials, except cost of water proofing compound, scaffolding, curing and dewatering with all leads and lifts etc. complete.	2=95 4400	One Sq. metre.	27,226	2-50	23072-50	5-50	5075
25.	3525 Sq.metres	Cement pointng to the downstream face of the end blocks of the spillway Dam in cement mortar 1:2 prop. including cost and conveyance of all materials, scaffolding, curing and dewatering with all leads and lifts etc. complete.	2.95	-do-	10399/-	2-50	8812-50	5-50	1936
26.	Providing and laying cement concrete of Desingation Ma with a crushing strength of 210 Kgs. per sq. cm. at 28 days with graded aggregates of maximum sixe of 40 mm (1½") and with a cement content of 315 Kgs. per Cum. around Drainage Gallery, Adits and sluices for spillway crest, spillway piers, spillway bucket, stilling basin, road slab and wearing coat, plugging of temporary sluices, for filling up fissures and fault zones in foundation and around water seals at joints etc. including cost and conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing dewatering and river flow diversion with all leads and lifts etc. complete.	5445 × 155 = 14,63,975.00 95458 × 114.25 = 1,09,403.52 4502 × 158.75 = 7,14,691.50 48202 × 128.25 = 261,81,959.50 84,70,029.52	One cubic metre		128	8077696/-	130	8207
(a)	63107	a) For all items except wearing coat.							
27.	6762 Metric Tonnes.	Providing fabricating and placing in position mild steel reinforcement for the RCC work including cutting, bending binding, cost of binding wire, of approved quality, dewatering river flow diversion, with all leads and lifts etc. complete.	1288/-	One Metric Tonne.	870688/-	1430/-	966680/-	1460/-	9867
28.	Item deleted	Providing and laying cement concrete of designatidn Mb with crushing strength of 245 Kg/Cum. at 28 days with graded aggregate with maximum sixe upto 20 mm and with a cement content of 442 Kg/Cum. for block-outs, and for Beams including cost and conveyance of all materials, formwork, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion, with all leads and lifts etc., complete.		One cubic metre.					

11	12	13	14	15	16	17	18
[illegible]0/-	119.00	89,250.00	132.40	99,[illegible]00/-	92.00	69,000/-	130.00	97,500/-
[illegible]5485/-	75.50	1,65,39,407.50	88.40	1,93,6[illegible],346/-	84.00	1,84,01,460/-	77.50	1,69,77,[illegible]37.50
[illegible]9-50	2.50	2,23,072.50	3.00	2[illegible].687/-	6.00	55,374/-	4.50	41,[illegible]30-50
[illegible]7-50	2.50	8,812-50	3.00	1[illegible].575/-	5.00	17,625/-	4.50	15,[illegible]62-50
[illegible]3910/-	138.00	87,08,766/-154.00	97,18[illegible]478/-	154.00	97,18,478/-	142.00	89,61[illegible]194/-
[illegible]60/-	1300.00	8,78,800/-1770	11,96[illegible]520/-	1300.00	8,78,800/-	1400.00	9,46[illegible]400/-

1.	2	3	4	5	6	7	8	9
29.	Item deleted	Providing fabricating and placing in position ribbed steel reinforcement for RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering, and river flow diversion with all leads and lifts etc. complete.		One Metric Tonne.				Item del
30.	Item deleted	Welding the M.S.reinforcement bars andribbed steel reinforcement bars of diameter 18 mm and above, including cost of all materials, plant and labour etc. complete.		Each weld.				Item del
31.	790 Metres.	Providing and placing porous concrete 0.50 M cubes with a central 20 cm dia. holes as per specification including cost and conveyance of all materials, scaffolding, curing and river flow diversion with all laads and lifts etc. complete.	dewateringxxx 31.40	One running metre.	24806/-	27/-	21330/-	86/- 67
32.	718 Metres.	Providing 16 SWG Copper water sealing strips, at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding, with all leads and lifts etc. complete.	433-50	-do-	311253/-	160	114880/-	570/-
33.	1677 Metres.	Providing 16 SWG copper water sealing strips at contraction and expansion joints, including fabricating and placing around the drainage gallery, and along the dxx downstream face of spillway at the contraction joints and cost and conveyance of all materials, scaffolding with all leads and lifts etc. complete.	209-40	-do-	351163-80	160	268320/-	222/- 3
34.	10834 Sq. metres.	Providing cement plastering 2 cm. thick in C.M. 1:3 prop. on the face of uncoursed rubble masonry adjacent to construction joints including cost and conveyance of all materials, scaffolding, curing, dewatering and x river flow diversion with all leads etc., complete. and lifts.	3-60	One Sq. metre.	39002/-	5-00	54170	4 4
35.	7782 Metric Tonnes.	Handling of puzzolona including its conveyance from Departmental stock piles, placing in the mixer and mixing it along with other ingredients of concrete or cement mortar and placing in the structure.	10-65	One Metric Tonne.	82878-30	32	249024/-	10 7
36.	5910 Cubic metre/kilometre	Extra radial lead charges for conveyance of sand, aggregates and rubble from quarries, situated beyond the radial limits shown in the respective quarry maps.	0-40	One cubic metre/kilometre	2364/-	0-40	2364/-	0-75 4

Note :- Rates quoted above are through rates for finished items inclusive of all Royalties, sales Tax Octroi and local taxes wherever applicab and x appropriate.

Grand total 38984230

Add Diversion 5,22,503

414,47,923

419,70,426

-7.12 /. 39

10	11	12	13	14	15	16	17	18
940/-	52.00	41,080/-	80.50	63,595/-	60.00	47,400/-	70.00	55,300/-
409260/-	500.00	3,59,000/-	644-00	4,62,392/-	500-00	3,59,000/-	460-00	3,30,280/-
/2294/	250.00	4,19,250/-	294-00	4,93,038/-	250.00	4,19,250/-	220-00	3,68,940/-
336/-	6.00	65,004/-	5.30	57,420-20	5.00	54,170/-	6.00	65,004/-
820/-	18.00	1,40,076/-	21.00	1,63,422/-	15.00	1,16,730/-	15.00	1,16,730/-
32-50	0.30	1,773/-	0.70	4,137/-	1.00	5,910/-	2.00	11,820/-
le 87796·00 = 6·39		44203781·50 +5·32 /.		44709028·00 +6·53 /.		45791413·00 +9·14 /.		42159349·50 +0·45 /.

Upper Krishna Project.

Constructing Almatti Dam across Krishna River Near Almatti Village, Bagewadi Taluka Dist., Bijapur.

Name of work: Constructing Almatti Dam across Krishna River - Spillway Cement masonry Dam from Chainage 665 Metres to chainage 1363-50 1383-Metres including foundation excavation, foundation treatment and all other appurtenant works, but excluding crest gates.

Schedule 'B'.

Memorandum showing the items of work to be carried out.

Item No.	Quantity estimated (may be more or less).	Items of work.	Tendered rate. Estimated Rate	Unit.	Amount.	Shaha Const. Co.Ltd., Bombay Rate.	Shaha Const. Co.Ltd., Bombay Amount.	Contin Delhi Rate.
1	2	3	4	5	6	7	8	9
		CONSTRUCTING SPILLWAY CEMENT MASONRY DAM FROM 665 Metres to 1185 Metres.						
1.	202461 Cubic Metres. Excavation in soils 174316 U.F. Spillway & R.T. 118579 U.F. Stilling basin. 87653 U.L. 21913 U.F. 202461	Excavation for foundation of spillway dam, spillway bucket, stilling basin and training walls etc., in all kinds of soils, disintegrated rock, fissured rock, soft rock, mafk and hard rock boulders upto and including 0.15 Cum. in volume but excluding hard rock, including shoring, strutting, dewatering, and river flow diversion and disposing off the excavated staff or stacking it neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation .	5.35 5.30 and 6.00 5.40	One cubic metre.	397590-60 98468-70 525918-00 118330-20 1140307-50	8-00	1619688/-	5-10 103
2.	326781 Cubic metres. Sp.w. 105500 U.F. 35167 U.L. 139585 U.F. 46629 U.L. 326781	Excavation for foundation of spillway dam spillway bucket, stilling basin and training walls etc. in hard rock including hard rock boulders of size more than 0.15 Cum. in volume including shoring, strutting, dewatering and river flow diversion and disposing the the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation.	16.95 16.70 18.50 16.90	-do-	1788225-00 687288-90 2582322-50 786340-D 5744176-50	17-00	5555277	18-00 58
3.	10246 Cubic metres. 4720 U.F. 5526 U.L.	Excavation for foundation of spillway dam, spillway bucket, stilling basin, training walls etc. in hard rock, by line drilling wedging or barring without resorting to blasting, including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly as directed with all lifts and with a maximum lead of 120 M beyond the edges of excavation.	44.30 42.80 44=25	-do-	209096-00 236512-80 445608-80	20	204920/-	80/- 819
4.	69840 Sq.metres.	Preparing foundation bed for concrete or masonry by proper line drilling, benching and stepping for foundation bed of spillway dam, spillway bucket, stilling basin and training walls etc. cleaning and washing the bed including dewatering and river flow diversion with all leads and lifts for disposing the stuff as directed.	5-90	One Square Metre.	412056/-	2-50	174600/-	5/- 349
5.	25225 Nos.	Providing and fixing 32 mm (1¼") dia. ribbed steel dowel bars 3.70 M long embedded 1.85 M in hard rock for the foundation bed of spillway, Dam and spillway bucket, stilling basin, training walls etc. including						

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al ount.	Mysore State Construction Co.Bangalore		Hindustan Construction Co.Bombay.		M/s.Shanker Narayan Construction Co.		National Project Construction Co.,Delhi.		REMARKS.
10	Rate 11	Amount 12	Rate 13	Amount 14	Rate 15	Amount 16	Rate 17	Amount 18	19
651-10	10.00	20,24,610/-	6-84	13,84,833-24	4-00	8,09,844	9-00	18,22,14[illegible]/-	
2058	25.00	81,69,525/-	15.60	50,97,783.6[illegible]	25.00	81,69,525/-	20.00	65,35,6[illegible]/-	
80/-	28.00	2,86,388/-	49.40	5.06.152.40	30.00	3.07.380/-	30.00	3.07.3[illegible]/-	
00/-	5.00	3,49,200/-	7.53	5,25,895.20	10.00	6,98,400/-	4.00	2,79,3[illegible]/-	
750/-	88.00	22,19,800/-	67.20	16,95,120/	85.00	21,44,125/-	70.00	17,65,7[illegible]/-	

1	2	3	4	5	6	7	xX 8	9	10
6.		Drilling curtain grout holes of 45 mm (1-7/8") dia. vertical or inclined upto 10° to the vertical in rock or concrete or masonry from the drainage gallery by percussion drills as ~~in~~ directed in stages including dewatering with all leads and lifts etc. complete.							
	4660 Metres	i) 0 to 10 metres.	45-60	One Running metre.	212496/-	40/-	186400/-	30	13980
	4660 Metres.	ii) 10 metres to 20 metres.	48-00	-do-	223680/-	50/-	233000/-	50	23300
	1890 Metres.	iii) 20 metres to 30 metres.	50-20	-do-	94878/-	60/-	113400	75	14178
7.	11210 Metres.	Flushing for a period upto 30 minutes the curtain grout holes of 45 mm (1-7/8") dia. with water and air under required pressure as directed, including conducting water tests etc. and dewatering with all leads and lifts etc. complete.	15-80	-do-	177188/-	10	112100/-	4	44840
8.	934 Metaric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45 mm (1-7/8") dia. by stage grouting with pressure as directed, including cost and x conveyance of all materials, dewatering with all leads and lifts etc. complete.	346/-	One Metric Tonne.	323164/-	400	373600/-	40	37360
9.		Drilling consolidation grout holes of 35 mm (1-3/8") dia. vertical or inclined upto 10° to the vertical in rock or concrete or masonry by percussion drills, as directed, in stages, including dewatering and river flow diversion with all leads and lifts etc. complete.							
	11486 Metres	0 to 10 metres.	45.60	One Running metre.	523761-60 ~~523705/-~~	36 ~~xxxx~~	413496/-	25	28715
10.	11486 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35 mm (1-3/8") dia. with water and air under required pressure as directed including conducting water tests etc., and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	-do-	181478-80	10	114860/-	4	45944
11.	957 Metric Tonnes.	Consolidation grouting with cement slurry in the above drilled holes of 35 mm (1-3/8") dia. under pressure as directed and including cost and conveyance of all materials including dewatering and river flow diversion, with all leads and lifts etc. complete.	346/-	One Metric Tonne.	331122/-	400	382800/-	40	38280
12.	5076 Metres.	Providing and fixing black mild steel pipes of approved quality 50 mm internal dia. (2") in lengths varying from 3 metres to 8 metres above the foundation bed of spillway and spillway bucket including cost and conveyance of all materials, providing screw caps and jointing etc. complete including dewatering and river flow diversion with all leads and lifts etc. complete.	27/-	One running metre.	137052	12	60912/-	20	10152

11	12	13	14	15	16	17	18	19
0/-	44.00	2,05,040/-	51.90	2,41,854/-	60.00	2,79,600/-	47.00	2,19,020/-
0/-	48.00	2,23,680/-	58.80	2,74,008/-	65.00	3,02,900/-	54.00	2,51,640/-
0/-	62.00	98,280/-	68.90	1,30,221/-	70.00	1,32,300/-	60.00	1,13,400
/-	19.00	2,12,990/-	7.00	78,470/-	12.00	1,34,520/-	5.00	56,050/-
/-	350.00	3,26,900/-	462.00	4,31,508/-	300.00	2,80,200/-	400.00	3,73,600/-
0/-	43.00	4,93,998	18.40	2,11,342-40	40.00	4,59,440/-	30.00	3,44,518/-
/-	19.00	2,18,234/-	7.00	80,402/-	12.00	1,37,832/-	5.00	57,430/-
0/-	50.00	3,34,950/-	462.00	4,42,134/-	300.00	2,87,100/-	340.00	3,25,380
0/-	32.00	1,62,432/-	31.00	1,57,356/-	15.00	76,140/-	20.00	1,01,520/-

1	2	3	4	5	6	7	8	9	
					1,28,48,672-60		1,15,63,053		1,26,0
13.	790 Metres.	Drilling 80 mm (3") dia. drainage holes by percussion drill from the drainage gallery vertical or inclined, upto 100 to vertical as directed, in rock, concrete or masonry including dewatering with all leads and lifts etc. complete.	104.00	One Running Metre	82,160	65.00	51,350	63.00	4
14.	560 Metres	Drilling NX size 80 mm (3") dia. Diamond Core test holes vertical or inclined as directed in rock, concrete or masonry including water tests, dewatering, with all leads and lifts etc. complete	253.00	-do-	1,41,680	155.00	86,800	105.00	5
15.	Flushing 1,350 Metres	Flushing for a period upto 30 minutes the above test holes of 80 mm (3") dia. with water and air under required pressure as directed including conducting water tests etc. and dewatering and river flow diversion with all leads and lifts etc. complete.	15.80	-do-	21,330	15.00	20,250	5.00	
16.	47 Metric Tonnes	Grouting with cement slurry in the above drilled test holes of 80 mm (3") dia. under pressure in stages as directed, including cost and conveyance of materials and including dewatering and river flow diversion with all leads and lifts etc. complete.	346.00	One Metric Tonne	16,262	400.00	18,800	400.00	1
17.	523 Insertions	Providing and inserting packers of suitable size in grout holes at specified locations including all labour, materials etc. complete.	5.75	Each insertion	3,036	70.00	36,960	50.00	2
18.	410 Hours	Flushing grout holes and test holes of all diameters for period in excess of 30 minutes with water and air under required pressure as directed, including conducting water tests, dewatering and river flow diversion with all leads and lifts etc. complete.	67.75	One Hour	27,777-50	65.00	26,650	50.00	2
19.	3,763 Cubic Metres.	Providing face stone masonry with chisel drafted hammer dressed face stones in cement mortar class 'A' for Upstream face of Dam with an average cement content of 150 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc. complete.	103.15 103.15 104.30 103.35	One Cubic Metre	2,32,603 24,034 92,514 40,100 3,89,251	100.00	3,76,300	90.00	3,3
	Spillway 2255 N.S.P. 233 Non Spill 887 Power block 388 3763								
20.	7,022 -do-	Providing uncoursed rubble stone masonry in cement mortar class "A" adjacent to upstream face stone masonry of Dam with an average cement content of 200 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads & lifts etc.complete	87.00 87.00 88.25 87.20	-do-	3,50,784 37,383 1,63,086 62,174 6,13,367	82.00	5,75,804	85.00	5,9
	Spillway 4032 N.S.P. 429 Non Spill 1848 Power block 713 7022								
21.	1,762 -do-	Providing face stone masonry using chisel drafted hammer dressed face stones in cement mortar class "B" for down-stream face of the two end blocks of the spillway dam with an average cement content of 150 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads & lifts etc.complete.	94.80 96.00 95.00	-do-	28,630 90,144 49,445 1,68,219	92.00	1,62,104	84.00	1,4
	P. 302 N.Spill 939 P.P. 521 1762								
					1,43,03,190-85		1,29,18,071		1,3

	11	12	13	14	15	16	17	18
,543·10								
		1,53,26,427		1,12,57,073.84		1,42,19,306		1,25,52,317
,770	116.00	91,640	91.80	72,522	70.00	55,300	100.00	79,000
,800	300.00	1,68,000	390.00	2,18,400	178.00	99,680	300.00	1,68,000
,750	25.50	34,425	14.00	18,900	12.00	16,200	10.00	13,500
,800	350.00	16,450	462.00	21,714	300.00	14,100	340.00	15,980
,400	10.00	5,280	35.00	18,480	60.00	31,680	25.00	13,200
,500	24.00	9,840x	70.00	28,700	50.00	20,500	50.00	20,500
,670	127.00	4,77,901	132.90	5,00,102.70	100.00	3,76,300.00	133.00	5,00,479.00
,070	84.00	5,29,848	98.20	6,89,560.40	93.00	6,53,046.00	82.50	5,79,315.00
,008	119.00	2,02,678	125.80	2,21,659.60	92.00	1,62,104.00	130.00	2,29,060.00
,211.10		1,69,29,489		1,30,47,117.84		1,56,48,216		1,41,71,851

1	2	3	4	5	6	7	8	9	10
22.	750 Cubic Metres.	Providing face stone masonry using chisel dressed face stones in cement mor ar class "B" for the water side face of training walls with an average cement content of 120 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion etc. complete.	104-95	One cubic metre.	78712-50	92	66000/-	84	63000
23.	219065 Cubic Metres Spl 137762 s. N.S.P. 14212 Non-spill 27958 Power 26275 R.T.wall 12858 219065	Providing uncoursed rubble stone masonry in cement mortar class 'B' hearting of Dam, training walls etc., with an average cement content of 160 Kg/Cum. of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc.	76.35 76.35 77.20 76.20 76.70	-do-	1,05,18,129 10,85,086 21,58,358 20,02,155 9,86,209 1,67,49,937	74	16210810/-	69	15115
24.	9229 Sq.Metres.	Cement pointing to the upstream face of dam, and training walls with C.M. 1:2 prop. with addition of water proofing materials including cost and conveyance of all materials, except cost of water prrofing compound, scaffolding, curing and dewatering with all leads and lifts etc. complete.	2=95 4-00	One Sq. metre.	27,226 363100/-	2-50	23072-50	5-50	50755
25.	3525 Sq.metres	Cement pointng to the downstream face of the end blocks of the spillway Dam in cement mortar 1:2 prop. including cost and conveyance of all materials, scaffolding, curing and dewatering with all leads and lifts etc. complete.	2.95	-do-	10399/-	2-50	8812-50	5-50	1932
26.	Providing and laying cement concrete of Desingation Ma with a crushing strength of 210 Kgs. per sq. cm. at 28 days with graded aggregates of maximum sixe of 40 mm (1½") and with a cement content of 315 Kgs. per Cum. around Drainage Gallery, Adits and sluices for spillway crest, spillway piers, spillway bucket, stilling basin, road slab and wearing coat, plugging of temporary sluices, for filling up fissures and fault zones in foundation and around water seals at joints etc. including cost and conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing dewatering and river flow diversion with all leads and lifts etc. complete.	9445×155 = 14,63,975·00 95758×114·25 = 1,09,403·52 4502×158·75 = 7,14,691·50 48202×128·25 = 61,81,959·50 84,70,029·52	One cubic metre		128	8077696/-	130	8203
(a)	63107	a) For all items except wearing coat.							
27.	6762 Metric Tonnes.	Providing fabricating and placing in position mild steel reinforcement for the RCC work including cutting, bending binding, cost of binding wire, of approved quality, dewatering river flow diversion, with all leads and lifts etc. complete.	1288/-	One Metric Tonne.	870628/-	1430/-	966680/-	1460/-	986
28.	Item deleted	Providing and laying cement concrete of designation Mb with crushing strength of 245 Kg/Cum. at 28 days with graded aggregate with maximum sixe upto 20 mm and with a cement content of 442 Kg/Cum. for block-outs, and for Beams including cost and conveyance of all materials, formwork, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion, with all leads and lifts etc., complete.		One cubic metre.					

11	12	13	14	15	16	17	18
119.00	89,250.00	132.40	99,300/-	92.00	69,000/-	130.00	97,500/-
75.50	1,65,39,407.50	88.40	1,93,65,346/-	84.00	1,84,01,460/-	77.50	1.69,77,537.50
2.50	2,23,072.50	3.00	27,687/-	6.00	55,374/-	4.50	41,530-50
2.50	8,812-50	3.00	10,575/-	6.00	17,625/-	4.50	15,862-50
138.00	87,08,766/-154.00		97,18,478/-	154.00	97,18,478/-	142.00	89,61,194/-
1300.00	8,78,800/-1770		11,96,520/-	1300.00	8,78,800/-	1400.00	9,46,400/-

1	2	3	4	5	6	7	8	9
29.	Item deleted	Providing fabricating and placing in position ribbed steel reinforcement for RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering, and river flow diversion with all leads and lifts etc. complete.		One Metric Tonne.				
30.	Item deleted	Welding the M.S.reinforcement bars andribbed steel reinforcement bars of diameter 18 mm and above, including cost of all materials, plant and labour etc. complete.		Each weld.				
31.	790 Metres.	Providing and placing porous concrete 0.50 M cubes with a central 20 cm dia. holes as per specification including cost and conveyance of all materials, scaffolding, curing dewateringxxx and river flow diversion with all leads and lifts etc. complete.	31.40	One running metre.	24806/-	27/-	21330/-	86/- 679
32.	718 Metres.	Providing 16 SWG Copper water sealing strips, at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding, with all leads and lifts etc, complete.	433-50	-do-	311253/-	160	114880/-	670/- 4
33.	1677 Metres.	Providing 16 SWG copper water sealing strips at contraction and expansion joints, including fabricating and placing around the drainage gallery, and along the downstream face of spillway at the contraction joints and cost and conveyance of all materials, scaffolding with all leads and lifts etc. complete.	209-40	-do-	351163-80	160	268320/-	222/- 3
34.	30834 Sq. metres.	Providing cement plastering 2 cm. thick in C.M. 1:3 prop. on the face of uncoursed rubble masonry adjacent to construction joints including cost and conveyance of all materials, scaffolding, curing, dewatering and x river flow diversion with all leads etc., complete and lifts.	3-60	One Sq. metre.	39002/-	5-00	54170	4 43
35.	7783 Metric Tonnes.	Handling of puzzolona including its conveyance from Departmental stock piles, placing in the mixer and mixing it along with other ingredients of concrete or cement mortar and placing in the structure.	10-65	One Metric Tonne.	82878-30	32	249024/-	10 7
36.	5910 Cubic metre/kilometre	Extra radial lead charges for conveyance of sand, aggregates and rubble from quarries, situated beyond the radial limits shown in the respective quarry maps.	0-40	One cubic metre/kilometre	2364/-	0-40	2364/-	0-75 4

Note :- Rates quoted above are through rates for finished items inclusive of all Royalties, sales Tax Octroi and local taxes wherever applica
and x appropriate. 3

Grand total. 41,83,91,627 3,89,84,230
414,47,923
5,22,503
419,70,426
-7.12%

Add Main flow Diversion

UPPER KRISHNA PROJECT.

Constructing Almatti Dam Across Krishna River near Almatti Village, Taluka Bagewadi, Dist.Bijapur.

Name of work :- Constructing Almatti Dam across Krishna River - Non-spillway Cement masonry Dam (~~including power Hocks~~) from 1363.50 ~~1378.5~~ Metres to 1573 Metres including Foundation Excavation, Foundation Treatment and all other appurtenant works.

Memorandum showing the items of works to be carried out.

Item No.	Quantity estimated (may be more or less).	Items of work.	Tendered Rate. Estimated Rate	Unit.	Amount.	M/s. Shah & Construction and Co. Ltd. Bombay Rate.	Amount.
2		3	4	5	6	7	8
1.	1503 ~~1603~~ Cubic Metres.	Excavation for foundation of Dam, in all kinds of soils, disintegrated rock, fissured rock, soft rock, and hard rock boulders upto and including 0.15 Cum in volume but excluding hard rock including shoring, strutting, dewatering and river flow diversion and					
	1202 Cum usefull 301 ~~use~~ useless.	disposing of the excavated stuff or stacking it neatly as directed with all lifts and with a maximum lead of 90 M. beyond the edges of excavation.	4.90 4.30	One cubic metre.	5,889-80 1,294-30	8-00	12,024
2.							
2.	9,215 Cubic metres.	Excavation for foundation of Dam in hard rock including hard rock boulders of size more than 0.15 cum in volume including, shoring, strutting, dewatering and river flow diversion, and disposing the excavated					
	6911 cum usefull 2304 cum useless.	stuff or stacking neatly as directed with all lifts and with a maximum lead of 90 M beyond the edges of excavation.	16.65 15.15	One cubic metre.	115,068-15 34,905-60	16-00	1,47,440
3.	485 Cubic metres.	Exdavation for foundation of Dam, in hard rock by line drilling, wedging or barring without resorting to blasting including dewatering and river flow diversion and disposing the excavated stuff or stacking neatly. as directed with all lifts and with a maximum lead of 90 M beyond the edges of excavation.	42.80	-do-	20,758-00	19-00	9,215
4.	3234 Sq. metres.	Preparing foundation bed for concrete or masonry by proper line drilling benching and stepping for foundation bed of dam, including clearing and washing the bed, dewatering, riverflow diversion with all leads and lifts for disposing the stuff as directed.	5-70	One Sq.metre.	18,433-80	2-50	8,085
5.	36 Nos.	Providing and fixing 32 mm (1-1/4") dia. ribbed steel dowel bars 3.70 M long embedded 1.85 M. into hard rock for the foundation bed of dam including drilling holes in hard rock, cutting rods, grouting with C.M. 1:1 including dewatering and riverflow diversion with all leads and lifts etc. complete including cost of steel.	125.65	Each Number	4,523-40	80-00	2,880

1	2	3	4	5	6	7	8	9
6.		Drilling curtain grout holes of 45 mm(1-7/8")diameter vertical or inclined upto 10° to the vertical,in rock concrete or masonry from the drainage gallery by percussion drills as directed in stages including dewatering etc.,complete.						
	1,400 Metres.	i) 0 to 10 Metres.	~~45x60~~ 45.60	One Running Metre	63,840	40.00	56,000	30.00
	780 Metres.	ii)10 to 20 Metres.	48.00	-do-	37,440	50.00	39,000	50,00
	Deleted	iii)20 to 30 Metres.						
7.	2,180 Metres	Flushing for a period upto 30 minutes the curtain grout holes of 45mm (1-7/8")dia with water and air under required pressure,as directed including conducting water tests etc.,and dewatering with all leads and lifts etc.,complete.	15.80	-do-	34,444	10.00	21,800	4.00
8.	182 Metric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45mm (1-7/8")dia by stage grouting with pressure as directed,including cost and conveyance of all materials,dewatering and river flow diversion, with all leads and lifts etc.,complete.	346.00	One Metric Tonne.	62,972	400.00	72,800	400.00
9.		Drilling consolidation grout holes of 35mm(1-3/8") dia.vertical or inclined upto 10° to the vertical in rock,concrete or masonry by percussion drills as directed in stages including dewatering and river flow diversion with all leads and lifts etc., complete.						
	733 Metres.	0 - 10 Metres.	45.60	One Running Metre.	33,424.80	36.00	26,388	25.00
10.	733 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35mm(1-3/8")dia.with water and air under required pressure as directed including conducting water tests etc.,and dewatering and river flow diversion with all leads and lifts etc.,complete.	15.8	-do-	11,581.40	18.00	13,194	4.00
11.	61 Metric Tonnes.	Consolidation grouting with cement slurry in the above drilled holes of 35mm(1-3/8")dia.under pressure,as directed and including cost and conveyance of all materials,including dewatering and river flow diversion with all leads and lifts etc.,complete.	346.0	One Metric Tonne.	2.1106 ~~21,050~~	400.00	24,400	400.00
12.	733 Metres	Providing and fixing black M.S.Pipes of approved quality 50mm internal dia(2") in lengths varying from 3 Metres to 8 Metres on the foundation bed,including cost and conveyance of all materials,providing screw caps and jointing etc.,complete including dewatering and river flow diversion with all leads and lifts etc.,complete.	27.00	One Running Metre.	19,791	12.00	8,796	20.00
13.	243 Metres.	Drilling 80mm(3")dia drainage holes by percussion drill from the drainage gallery,vertical or inclined upto 10° to the vertical as directed,in rock,concrete or masonry including dewatering and river flow diversion complete with all leads and lifts etc.,complete		One Running		65.00	15,795	63.00

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
000	60.00	84,000	52.00	72,800	45.00	63,000	50.00	70,000	60.00	84,000	44.00	61,600	47.00	65,800
000	65.00	50,700	58.80	45,864	55.00	42,900	55.00	42,900	65.00	50,700	48.00	37,440	54.00	42,120
	10.00	21,800	7.00	15,260	15.00	32,700	18.00	39,240	12.00	26,160	19.00	41,420	5.00	10,900
720	300.00	54,600	462.00	84,084	350.00	63,700	370.00	67,340	300.00	54,600	350.00	63,700	400.00	72,800
800	60.00	43,980	18.40	13,487.20	45.00	32,985	40.00	29,320	40.00	29,320	43.00	31,519	30.00	21,990
325	10.00	7,330	7.00	5,131	15.00	10.995	18.00	13,194	12.00	8,796	19.00	13,927	5.00	3,665
932	300.00	18,300	462.00	28,182	350.00	21,350	370.00	22,570	300.00	18,300	350.00	21,350	340.00	20,740
400	20.00	14,660	30.80	22,576.40	30.00	21,990	30.00	21,990	15.00	10,995	32.00	23,456	20.00	14,660
660	90.00	21,870	91.80	22,307.40	100.00	24,300	120.00	29,160	70.00	17,010	116.00	28,188	100.00	24,300
		6,03,042		5,50,969.90		5,51,210		6,07,820.45		6,35,839		5,62,365.50		5,04,808

309

12	13	14	15	16	17	18	19	20	21	22	23	24
6,03,042/-		5,50,969-90		5,51,210/-		6,07,820-45		6,35,839		5,68,365.50		5,04,808/-
30,520/-	390.30	42,542-70	275.00	29,975/-	300.00	32,700/-	178.00	19,402/-	300.00	32,700/-	300.00	32,700/-
3,520/-	14.00	4,928/-	15.00	5,280/-	18.00	6,336/-	12.00	4,224/-	25.50	8,976/-	10.00	3,520/-
2,700/-	462.00	4,158/-	350.00	3,150/-	370.00	3,330/-	300.00	2,700/-	350.00	3,150/-	340.00	3,060/-
5,520/-	70.00	6,440/-	80.00	7,360/-	80.00	7,360/-	50.00	4,600/-	24.00	2,208/-	50.00	4,600/-
1,150/-	35.00	4,025/-	8.00	920/-	10.00	1,150/-	60.00	6,900/-	10.00	1,150/-	25.00	2,875/-
1,93,050/-	132.90	2,33,239.50	108.00	1,89,540/-	120.00	2,10,600/-	100.00	1,75,500/-	127.00	2,22,885/-	137.00	2,40,435/-
2,77,567.50	98.20	3,05,402/-	83.00	2,58,130/-	95.00	2,95,450/-	93.00	2,89,230/-	84.00	2,61,240/-	84.00	2,61,240/-
2,22,885/-	125.70	2,39,458-50	98.00	1,86,690/-	120.00	2,28,600	92.00	1,75,260/-	119.00	2,26,695/-	135.00	2,57,175/-

1	2	3	4	5	6	7	8	9	10
					5,10,744-25		4,57,817/-		4,61,461/-
14.	109 Metres.	Drilling NX size 80 mm(3") dia. diamond core test holes vertical or inclined as directed in rock, concrete or masonry, including conducting Water Tests dewatering etc. with all leads and lifts etc. complete.	253.00	One Running Metre.	27,577/-	155.00	16,895/-	105.00	11,445/-
15.	352 Metres	Flushing for a period upto 30 minutes the above test holes of 80mm dia(3") with water and air under required pressure as directed including conducting water tests etc. and dewatering and river flow diversion with all leads & lifts etc.complete.	15.80	-do-	5,561-60	15.00	5,280/-	5.00	1,760/-
16.	9 Metric Tonnes	Grouting with cement slurry in the above drilled test holes of 80mm (3") dia. under pressure as directed and including cost and conveyance of materials including dewatering and river flow diversion with all leads & lifts etc. complete.	346.00	Metric Tonne	3,114/-	400.00	3,600/-	400.00	3,600/-
17.	92 Hours	Flushing Grout holes and test holes of all diameters for a period in excess of 30 minutes with water and air under required pressure as directed including conducting water tests, dewatering and river flow diversion with all leads and lifts etc.complete.	67.75	One hour	6,233/-	65.00	5,980/-	50.00	4,600/-
18.	215 Nos.	Providing and inserting packers in grout holes at specified locations, including all labour, materials etc.complete.	5.75	Each insertion	661.25	70.00	8,050/-	50.00	5,750/-
19.	1,755/ Cubic Metres	Providing face stone masonry with chisel drafted Hammer dressed face stones in cement mortar Class-A for upstream face of dam with an average cement content of 150 Kg per Cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc.complete.	105.25	One Cubic Metre	1,84,713-75	98.00	1,71,990/-	90.00	1,57,950/-
20.	3,110 -do-	Providing uncoursed rubble masonry in cement mortar class 'A' adjacent to u/s face stone masonry for dam with an average cement content of 200 Kg per cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing dewatering and river flow diversion with all leads & lifts etc.complete	89.05	-do-	2,76,945/50	82.00	2,55,020/-	85.00	2,64,350/-
21.	1,905 -do-	Providing face stone masonry using chisel drafted Hammer dressed face stones in cement mortar class 'B' for downstream face of dam with an average cement content of 120 Kg per cum of masonry including cost and conveyance of all materials, labour charges scaffolding, curing & dewatering & river flow diversion with all leads and lifts etc. complete.	96.84	One Cubic Metre.	1,84,480-20	92.00	1,75,260/-	84.00	1,60,020/-

1	12	13	14	15	16	17	18	19	20	21	22	23	24
	6,03,042/-		5,50,969-90		5,51,210/-		6,07,820-45		6,35,839		5,68,365.50		5,04,808/-
0/-	30,520/-	390.30	42,542-70	275.00	29,975/-	300.00	32,700/-	178.00	19,402/-	300.00	32,700/-	300.00	32,700/-
.00	3,520/-	14.00	4,928/-	15.00	5,280/-	18.00	6,336/-	12.00	4,224/-	25.50	8,976/-	10.00	3,520/-
0/-	2,700/-	462.00	4,158/-	350.00	3,150/-	370.00	3,330/-	300.00	2,700/-	350.00	3,150/-	340.00	3,060/-
.00	5,520/-	70.00	6,440/-	80.00	7,360/-	80.00	7,360/-	50.00	4,600/-	24.00	2,208/-	50.00	4,600/-
.00	1,150/-	35.00	4,025/-	8.00	920/-	10.00	1,150/-	60.00	6,900/-	10.00	1,150/-	25.00	2,875/-
2d 2,10,600													
0/-	1,93,050/-	132.90	2,33,239.50	108.00	1,89,540/-	120.00	2,10,600/-	100.00	1,75,500/-	127.00	2,22,885/-	137.00	2,40,435/-
25	2,77,567.50	98.20	3,05,402/-	83.00	2,58,130/-	95.00	2,95,450/-	93.00	2,89,230/-	84.00	2,61,240/-	84.00	2,61,240/-
-	2,22,885/-	125.70	2,39,458-50	98.00	1,86,690/-	120.00	2,28,600	92.00	1,75,260/-	119.00	2,26,695/-	135.00	2,57,175/-

	11	12	13	14	15	16	17	18	19	20	21	22	23	24
,611	73.50	21,10,846.50	88.40	25,38,759.60	77.00	22,11,363	85.00	24,41,115	84.00	24,12,396	75.50	21,68,284.50	78.50	22,54,441.50
3,110	114.75	2,23,418.25	151.00	2,93,997	155.00	3,01,785	155.00	3,01,785	147.00	2,86,209	138.00	2,68,686	150.00	2,92,050
7,000	98.00	13,328.00	210/	28,560	155.00	21,080	195.00	26,520	150.00	20,400	138.00	18,768	140.00	19,040
4,500	184/-	3,312	350.00	6,300	130.00	2,340	200.00	3,600	190.00	3,420	227.00	4,086	250.00	4,500
9,294	1.00	3,508	3.00	10,524	4.00	14,032	2.00	7,016	6.00	21,048	2.50	8,770	5.00	17,540
71-50	1.00	3,813	3.00	11,439	3.00	11,439	2.00	7,626	5.00	19,065	2.50	9,532	5.00	19,065
7,160	1200/	55,200	1770/	81,420	1300/	59,800	1260/	57,960	1300/	59,800	1300/	59,800	1400/	64,400
,920	1300/	24,310	1960/	36,652	1400/	26,180	1300/	24,310	1400/	26,180	1400	26,180	1525/	28,517.50

1	2	3	4	5	6	7	8	9	
22.	28,719 Cubic Metres.	Providing uncoursed rubble stone masonry in C.M.Class 'B' for hearting of dam with an average cement content of 160 Kg/Cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc.complete.	77.95	One Cubic Metre.	22,38,646.05	72.00	20,67,768/-	69.00	19,
23.		Providing and laying cement concrete of designation Ma with a crushing strength of 210 Kg/Sq.cm. at 28 days with graded aggregates of maximum size of 40 mm and with a cement content of 315 Kgs/cum around drainage gallery; pen stocks, air vents etc., for trash rack structure and curtain wall, in fissures and fault zones in the foundation and around water seals at contraction joints etc.;wearing coat including cost & conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion with all leads & lifts etc.complete.							
	1,947 -do-	a) For all items except wearing coat.							
		For construction joints: 552 for DG Adits & sluices: 1395	114.25 160.10	-do-	63,066/- 2,23,339-50	130.00	2,53,110/-	130/-	2,5
	136 -do-	b) For wearing coat only	114.25	-do-	15,538/-	130.00	17,680/-	125/-	
24.	18 -do-	Providing and laying of cement concrete of designation Mb with a crushing strength of 245 Kg/Sq.cm at 28 days with graded aggregates of maximum size upto 20mm and a cement content of 442 Kgs/Cum for pump chamber, trash rack structure, block outs etc.including cost and conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion, with all leads & lifts etc.complete.	139=50 ~~266.25~~	-do-	2,511 ~~4,792.50~~	160.00	2,880/-	250/-	
25.	3,508 Sq.Meters	Cement pointing to the u/s face of dam with C.M. of 1:2 propn: with addition of water proofing materials including cost & conveyance of all materials (except cost of waterproofing materials) scaffolding, curing & dewatering with all leads & lifts etc.complete	2=95 ~~4.00~~	One Sq.Metre	~~30~~ ~~14,032/-~~ 10,349/—	2.50	8,770/-	5.50	1
26.	3,813 -do-	Cement pointing to the D/sface of the dam with c.m.1:2 propn: including cost and conveyance of all materials, scaffolding, curing & dewatering with all leads & lifts etc.complete	2.95	-do-	11,248/-	2.50	9,532-50	5.50	20,9
27.	46 Metric Tonnes	Providing, fabricating and placing in positinnmild steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads & lifts etc. complete.	1288.00	One Mtx Metric Tonne	59,248/-	1,430/-	65,780/-	1460/	6
28	18.70 -do-	Providing, fabricating & placing in position ribbed steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads & lifts etc. complete.	1388.00	-do-	25,955.60	1530.00	28,611/-	1600/	2

P.T.O

2		3	4	5	6	7	8	9	10
29.	431 Metres	Providing and placing porous concrete 0.50 M cubes with a central 20 cm dia. holes as per specifications including cost and conveyance of all materials, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	31.50	One Running Metre	13,576/-	27.00	11,637/-	86/-	37,066
30.	201 ,,	Providing 16 SWG copper water seals at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding with leads and lifts etc..complete.	433.50	-do-	87,133-50	160.00	32,160/-	570/-	1,14,570
					39,47,033 1 ~~39,56,605-70~~		35,97,820.50		~~39,16,188.50~~ 39,25,138·50
					39,56,605-70				

1	2	3	4	5	6	7	8	9	10	11
31.	120 Metres.	Providing 16 S.W.G.Copper water sealing strips at contraction joints including fabricating and placing around the drainage gallery including cost and conveyance of all materials,scaffolding all plant and labour charges,all leads & lifts etc.,complete.	209.50 ~~209.60~~	One Running Metre.	25/40 ~~27,240~~	160.00	19,200	222.00 ~~2220~~	26,640	129.
32.	2,359 Sq.Metres.	Providing cement plastering 2 cm thick in C.M.1:3 proportion on the face of uncoursed rubble masonry adjacent to contraction joints,including cost and conveyance of all materials,scaffolding,curing,de-watering and river flow diversion with all leads and lifts etc.,complete.	3.60	One Square Metre.	8,492.40	5.00	11,795	4.00	9,436	5.
33.	752 Cubic Metre/ Kilometre.	Extra radial lead charges for conveyance of sand, aggtegate and rubble from quarries situated beyond the radial limits shown in the respective quarry maps.	0.31	One Cubic Metre/ Kilometre.	233.12	0.40	300.80	0.75	564	1.
34.	1,198 Metric Tonnes.	Handling of puzzolona including its conveyance from departmental stock piles placing in the mixer and mixing it along with other ingredients of cement mortar and placing in the structure.	10.60	One Metric Tonne.	12698.8	32.00	38,336	10.00	11,980	4.
					~~46,864.32~~ 40,03,702		36,67,452.30 39,97,033		36,73,758.50	
							- 8.25 %		- 8.0	

te:- Rates quoted above are through rates for finished items inclusive of all royalties,sales tax,octroi and local taxes wherever applicable and appropriate.

	12	13	14	15	16	17	18	19	20	21	22	23	24
00	15,480	294.00	35,280	325.00	39,000	400.00	48,000	250.00	30,000	250.00	30,000	220.00	26,400
00	11,795	5.30	12,502.70	4.25	10,025.75	5.00	11,795	5.00	11,795	6.00	14,154	6.00	14,154
75	1,316	0.70	526.4	1.00	752	2.00	1,504	1.00	752	0.40	300.80	2.00	1,504
00	4,792	21.00	25,158	25.00	29,950	80.00	95,840	15.00	17,970	18.00	21,564	15.00	17,970
	39,11,013.25		46,36,421.80		40,38,259.75		44,82,167.45		43,49,057		40,74,407.80		41,92,625
	− 2·15 %		+ 15·97 %		+ 1·03 %		+ 12·11 %		+ 8·81 %		+ 1·94 %		+ 4·89 %

UPPER [illegible] PROJECT.

Constructing Almatti Dam Across Krishna near Almatti Village, Taluka Bagewadi, Dist.Bijapur.

Name of work :- Constructing Almatti Dam across Krishna River spillway Cement masonry Dam (~~including power Rocks~~) from 15~~8~~.5 Metres to 1573 Metres including Foundation Excavation Treatment and all other appurtenant works.

Memorandum showing the of works to be carried out.

Item No.	Quantity estimated (may be more or less).	Items of work.	Tendered Rate.	Unit.	Amount.	M/s. Shah & and Co. Ltd Rate.	Construction Bombay Amount.	Contin constr Co.Pvt New D Rate.
1	2	3	4	5	6	7	8	9
1.	1503 1503 Cubic Metres. 1202 Cum usefull 301 cume- less.	Excavation for foundation of Dam, in all of soils, disintegrated rock, fissured rock rock, and hard rock boulders upto and includin Cum in volume but excluding hard rock including, strutting, dewatering and river flow di and disposing of the excavated stuff or sta neatly as directed with all lifts and with a m ead of 90 M. beyond the edges of excavation.	4.90 4.30	One cubic metre.	5,889-80 1,294-30	8-00	2,024	5-00
2.								
2.	9,215 Cubic metres. 6911 cum usefull 2304 cum useless.	Excavation for foundation of Dam in har ncluding hard rock boulders of size more than 0 in volume including, shoring, strutting, d g and river flow diversion, and disposing the ed stuff or stacking neatly as directed w lifts and with a maximum lead of 90 M beyond s of excavation.	16.65 15.15	One cubic metre.	115,068-15 34,905-60	16-00	7,440	18-00
3.	485 Cubic metres.	Excavation for foundation of Dam, in ha by line drilling, wedging or barring with rting to blasting including dewatering and ri diversion and disposing the excavated stacking neatly as directed with all d with a maximum lead of 90 M beyond the f excavation.	42.80	-do-	20,758-00	19-00	9,215	80
4.	3234 Sq. metres.	Preparing foundation bed for concrete ry by proper line drilling benching and s for foundation bed of dam, including clear wash- ing the bed, dewatering, riverflow di with all leads and lifts for disposing the stu ected.	5-70	One Sq.metre.	18,433-80	2-50	8,085	5-00
5	36 Nos.	Providing and fixing 32 mm (1-1/4") di ed steel dowel bars 3.70 M long embedded 1.85 hard rock for the foundation bed of dam includi ng holes in hard rock, cutting rods, grouting 1:1 including dewatering and riverflow d with all leads and lifts etc. complete includi of steel.	125.65	Each Number	4,523-40	80-00	2,880	110

Reach III

ental uction .Ltd., lhi-3.		Sri. Subba Rao Vijayawada		Hindustan Const. ruction Co. Bombay		G.J.Fernandiz, Hyderabad.		R.N.Shetty, Hubli.		Shankaranarayana Construction Co. Bangalore.		Mysore State Construction Corporation Bangalore.		N.P.C.C.	
Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Amount.
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
7515	9-00	13527	7-80	11873-70	5-00	7515	9-15	13752-45	6-00	9018	10-00	15030	9-00	13527
165870	24	221160	19.40	178771	21.00	193515	24.00	221160	30	276450	21	193515	20	184300
38800	35	16975	49.40	23959	34.00	16490	30	14550	30	14550	24.50	11882.50	30	14550
16170	10-00	32340	7.50	24255	5.00	16170	6.00	19404	10	32340	5-00	16170	4.00	12936
3960	50.00	1800	67.20	2419.20	100	3600	90.00	3240	100	3600	88	3168	70	2520

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	60.00	84,000	52.00	72,800	45.00	63,000	50.00	70,000	60.00	84,000	44.00	61,600	47.00	65,800
0	65.00	50,700	58.80	45,864	55.00	42,900	55.00	42,900	65.00	50,700	48.00	37,440	54.00	42,120
	10.00	21,800	7.00	15,260	15.00	32,700	18.00	39,240	12.00	26,160	19.00	41,420	5.00	10,900
0	300.00	54,600	462.00	84,084	350.00	63,700	370.00	67,340	300.00	54,600	350.00	63,700	400.00	72,800
00	60.00	43,980	18.40	13,487.20	45.00	32,985	40.00	29,320	40.00	29,320	43.00	31,519	30.00	21,990
25	10.00	7,330	7.00	5,131	15.00	10,995	18.00	13,194	12.00	8,796	19.00	13,927	5.00	3,665
2	300.00	18,300	462.00	28,182	350.00	21,350	370.00	22,570	300.00	18,300	350.00	21,350	340.00	20,740
0	20.00	14,660	30.80	22,576.40	30.00	21,990	30.00	21,990	15.00	10,995	32.00	23,456	20.00	14,660
0	90.00	21,870 / 6,03,042	91.80	22,307.40 / 5,60,969.90	100.00	24,300 / 5,51,210	120.00	29,160 / 6,07,820.45	70.00	17,010 / 6,35,839	116.00	28,188 / 5,62,365.50	100.00	24,300 / 5,04,808

1	2	3	4	5	6	7	8	9
6.		Drilling curtain grout holes of 45 mm(1-7/8")diameter vertical or inclined upto 10^0 to the vertical,in rock concrete or masonry from the drainage gallery by percussion drills as directed in stages including dewatering etc.,complete.						
	1,400 Metres.	i) 0 to 10 Metres.	45.60	One Running Metre	63,840	40.00	56,000	30.00
	700 Metres.	ii)10 to 20 Metres.	48.00	-do-	37,440	50.00	39,000	50,00
	Deleted	iii)20 to 30 Metres.						
7.	2,180 Metres	Flushing for a period upto 30 minutes the curtain grout holes of 45mm (1-7/8")dia with water and air under required pressure,as directed including conducting water tests etc.,and dewatering with all leads and lifts etc.,complete.	15.80	-do-	34,444	10.00	21,800	4.00
8.	182 Metric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45mm (1-7/8")dia by stage grouting with pressure as directed,including cost and conveyance of all materials,dewatering and river flow diversion, with all leads and lifts etc.,complete.	346.00	One Metric Tonne.	62,972	400.00	72,800	400.00
9.		Drilling consolidation grout holes of 35mm(1-3/8") dia.vertical or inclined upto 10^0 to the vertical in rock,concrete or masonry by percussion drills as directed in stages including dewatering and river flow diversion with all leads and lifts etc., complete.						
	733 Metres.	0 - 10 Metres.	45.60	One Running Metre.	33,424.80	36.00	26,388	25.00
10.	733 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35mm(1-3/8")dia.with water and air under required pressure as directed including conducting water tests etc.,and dewatering and river flow diversion with all leads and lifts etc.,complete.	15.8	-do-	11,581.40	18.00	13,194	4.00
11.	61 Metric Tonnes.	Consolidation grouting with cement slurry in the above drilled holes of 35mm(1-3/8")dia.under pressure,as directed and including cost and conveyance of all materials,including dewatering and river flow diversion with all leads and lifts etc.,complete.	346.0	One Metric Tonne.	21106 21,350	400.00	24,400	400.00
12.	733 Metres	Providing and fixing black M.S.Pipes of approved quality 50mm internal dia(2") in lengths varying from 3 Metres to 8 Metres on the foundation bed,including cost and conveyance of all materials,providing screw caps and jointing etc.,complete including dewatering and river flow diversion with all leads and lifts etc.,complete.	27.00	One Running Metre.	19,791	12.00	8,796	20.00
13.	243 Metres.	Drilling 80mm(3")dia drainage holes by percussion drill from the drainage gallery,vertical or inclined upto 10^0 to the vertical as directed,in rock,concrete or masonry including dewatering and river flow diversion complete with all leads and lifts etc.,complete		One Running				

1	2	3	4	5	6	7	8	9	
6.		Drilling curtain grout holes of 45 mm(1-7/8") diameter vertical or inclined upto 10° to the vertical, in rock concrete or masonry from the drainage gallery by percussion drills as directed in stages including dewatering etc., complete.							
	1,400 Metres.	i) 0 to 10 Metres.	45.60	One Running Metre	63,840	40.00	56,000	30.00	42,
	780 Metres.	ii) 10 to 20 Metres.	48.00	-do-	37,440	50.00	39,000	50,00	39,
	Deleted	iii) 20 to 30 Metres.							
7.	2,180 Metres	Flushing for a period upto 30 minutes the curtain grout holes of 45mm (1-7/8") dia with water and air under required pressure, as directed including conducting water tests etc., and dewatering with all leads and lifts etc., complete.	15.80	-do-	34,444	10.00	21,800	4.00	8,
8.	182 Metric Tonnes.	Curtain grouting with cement slurry in the drilled holes of 45mm (1-7/8") dia by stage grouting with pressure as directed, including cost and conveyance of all materials, dewatering and river flow diversion, with all leads and lifts etc., complete.	346.00	One Metric Tonne.	62,972	400.00	72,800	400.00	72,8
9.		Drilling consolidation grout holes of 35mm(1-3/8") dia. vertical or inclined upto 10° to the vertical in rock, concrete or masonry by percussion drills as directed in stages including dewatering and river flow diversion with all leads and lifts etc., complete.							
	733 Metres.	0 - 10 Metres.	45.60	One Running Metre.	33,424.80	36.00	26,388	25.00	18,3
10.	733 Metres.	Flushing for a period upto 30 minutes the above consolidation grout holes of 35mm(1-3/8") dia. with water and air under required pressure as directed including conducting water tests etc., and dewatering and river flow diversion with all leads and lifts etc., complete.	15.8	-do-	11,581.40	18.00	13,194	4.00	2,9
11.	61 Metric Tonnes.	Consolidation grouting with cement slurry in the above drilled holes of 35mm(1-3/8") dia. under pressure, as directed and including cost and conveyance of all materials, including dewatering and river flow diversion with all leads and lifts etc., complete.	346.0	One Metric Tonne.	21106 21,350	400.00	24,400	400.00	24,4
12.	733 Metres	Providing and fixing black M.S. Pipes of approved quality 50mm internal dia(2") in lengths varying from 3 Metres to 8 Metres on the foundation bed, including cost and conveyance of all materials, providing screw caps and jointing etc., complete including dewatering and river flow diversion with all leads and lifts etc., complete.	27.00	One Running Metre.	19,791	12.00	8,796	20.00	14,6
13.	243 Metres.	Drilling 80mm(3") dia drainage holes by percussion drill from the drainage gallery, vertical or inclined upto 10° to the vertical as directed, in rock, concrete or masonry including dewatering and river flow diversion complete with all leads and lifts etc., complete		One Running					

1	2	3	4	5	6	7	8	9	10
					5,10,744-25		4,57,817/-		4,61
14.	109 Metres.	Drilling NX size 80 mm(3") dia. diamond core test holes vertical or inclined as directed in rock, concrete or masonry, including conducting Water Tests dewatering etc. with all leads and lifts etc. complete.	253.00	One Running Metre.	27,577/-	155.00	16,895/-	105.00	11
15.	352 Metres	Flushing for a period upto 30 minutes tne above test holes of 80mm dia(3") with water and air under required pressure as directed including conducting water tests etc. and dewatering and river flow diversion with all leads & lifts etc.complete.	15.80	-do-	5,561-60	15.00	5,280/-	5.00	1,
16.	9 Metric Tonnes	Grouting with cement slurry in the above drilled test holes of 80mm (3") dia. under pressure as directed and including cost and conveyance of materials including dewatering and river flow diversion with all leads & lifts etc. complete.	346.00	Metric Tonne	3,114/- 3%150%	400.00	3,600/-	400.00	3,
17.	92 Hours	Flushing Grout holes and test holes of all diameters for a period in excess of 30 minutes with water and air under required pressure as directed including conducting water tests, dewatering and river flow diversion with all leads and lifts etc.complete.	67.75	One hour	6,233/-	65.00	5,980/-	50.00	4,
18.	115 Nos.	Providing and inserting packers in grout holes at specified locations, including all labour, materials etc.complete.	5.75	Each insertion	661.25	70.00	8,050/-	50.00	5,
19.	1,755/ Cubic Metres	Providing face stone masonry with chisel drafted Hammer dressed face stones in cement mortar Class-A for upstream face of dam with an average cement content of 150 Kg per Cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing and dewatering and river flow diversion with all leads and lifts etc.complete.	105.25	One Cubic Metre	1,84,713-75	98.00	1,71,990/-	90.00	1,57,
20.	3,110 -do-	Providing uncoursed rubble masonry in cement mortar class 'A' adjacent to u/s face stone masonry for dam with an average cement content of 200 Kg per cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing dewatering and river flow diversion with all leads & lifts etc.complete	89.05	-do-	2,76,945/50	82.00	2,55,020/-	85.00	2,64,
21.	1,905 -do-	Providing face stone masonry using chisel drafted Hammer dressed face stones in cement mortar class 'B' for downstream face of dam with an average cement content of 120 Kg per cum of masonry including cost and conveyance of all materials, labour charges scaffolding, curing & dewatering & river flow diversion with all leads and lifts etc. complete.	~~xxx~~ 96.84	One Cub Metre.	1,84,480-20	92.00	1,75,260/-	84.00	1,60 xxxx

	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1[illegible]-		6,03,042/-		5,50,969-90		5,51,210/-		6,07,820-45		6,35,839		5,69,365.50		5,04,808/-
15/-	280/-	30,520/-	390.30	42,542-70	275.00	29,975/-	300.00	32,700/-	173.00	19,402/-	300.00	32,700/-	300.00	32,700/-
60/-	10.00	3,520/-	14.00	4,928/-	15.00	5,280/-	18.00	6,336/-	12.00	4,224/-	25.50	8,976/-	10.00	3,520/-
00/-	300/-	2,700/-	462.00	4,158/-	350.00	3,150/-	370.00	3,330/-	300.00	2,700/-	350.00	3,150/-	340.00	3,060/-
00/-	60.00	5,520/-	70.00	6,440/-	80.00	7,360/-	80.00	7,360/-	50.00	4,600/-	24.00	2,208/-	50.00	4,600/-
750/-	10.00	1,150/-	35.00	4,025/-	8.00	920/-	10.00	1,150/-	60.00	6,900/-	10.00	1,150/-	25.00	2,375/-
950/-	110/-	1,93,050/-	132.90	2,33,239.50	108.00	1,89,540/-	120.00	2,10,600/-	100.00	1,75,500/-	127.00	2,22,885/-	137.00	2,40,435/-
350/-	89.25	2,77,567.50	98.20	3,05,402/-	83.00	2,58,130/-	95.00	2,95,450/-	93.00	2,89,230/-	84.00	2,61,240/-	84.00	2,61,240/
20/-	117/-	2,22,885/-	125.70	2,39,458-50	98.00	1,86,690/-	120.00	2,28,600	92.00	1,75,260/-	119.00	2,26,695/-	135.00	2,57,175/-

1	2	3	4	5	6	7	8	9	10
22.	28,719 Cubic Metres.	Providing uncoursed rubble stone masonry in C.M.Class 'B' for hearting of dam with an average cement content of 160 Kg/Cum of masonry including cost and conveyance of all materials, labour charges, scaffolding, curing,dewatering and river flow diversion with all leads and lifts etc.complete.	77.95	One Cubic Metre.	22,38,646.05	72.00	20,67,768/-	69.00	19,
23.		Providing and laying cement concrete of designation Ma with a crushing strength of 210 Kg/Sq.cm. at 28 days with graded aggregates of maximum size of 40 mm and with a cement content of 315 Kgs/cum around drainage gallery; pen stocks, air vents etc., for trash rack structure and curtain wall, in fissures and fault zones in the foundation and around water seals at contraction joints etc.,wearing coat including cost & conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion with all leads & lifts etc.complete.							
	1,947 -do-	a) For all items except wearing coat. For construction joints: 552 for DG Adits & sluices: 1395	114.25 160.10	-do-	63,066/- 2,23,339-50	130.00	2,53,110/-	130/-	2,5
	136 -do-	b) For wearing coat only	114.25	-do-	15,538/-	130.00	17,680/-	125/-	
24.	18 -do-	Providing and laying of cement concrete of designation Mb with a crushing strength of 245 Kg/Sq.cm at 28 days with graded aggregates of maximum size upto 20mm and a cement content of 442 Kgs/Cum for pump chamber, trash rack structure, block outs etc.including cost and conveyance of all materials, form work, mixing, placing, vibrating, compacting, curing, dewatering and river flow diversion, with all leads & lifts etc.complete.	139.50 ~~266.25~~	-do-	2,511 ~~44,782.30~~	160.00	2,830/-	250/-	
25.	3,508 Sq.Meters	Cement pointing to the u/s face of dam with C.M. of 1:2 propn: with addition of water proofing materials including cost & conveyance of all materials (except cost of waterproofing materials) scaffolding, curing & dewatering with all leads & lifts etc.complete	2.95 ~~4.00~~	One Sq.Metre	10,349 ~~14,032/-~~	2.50	8,770/-	5.50	
26.	3,813 -do-	Cement pointing to the D/sface of the dam with c.m.1:2 propn: including cost and conveyance of all materials, scaffolding, curing & dewatering with all leads & lifts etc.complete	2.95	-do-	11,248/-	2.50	9,532.50	5.50	20,
27.	46 Metric Tonnes	Providing, fabricating and placing in positimmild steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads & lifts etc. complete.	1288.00	One Mtx Metric Tonne	59,248/-	1,430/-	65,780/-	1460/	
28.	13.70 -do-	Providing, fabricating & placing in position ribbed steel reinforcement for the RCC work including cutting, bending, binding, cost of binding wire of approved quality, dewatering and river flow diversion with all leads & lifts etc. complete.	1388.00	-do-	25,955.60	1530.00	28,611/-	1600/	

P.T

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1,611	73.50	21,10,846.50	88.40	25,38,759.60	77.00	22,11,363	85.00	24,41,115	84.00	24,12,396	75.50	21,68,284.50	78.50	22,54,441.50
3,110	114.75	2,23,418.25	151.00	2,93,997	155.00	3,01,785	155.00	3,01,785	147.00	2,86,209	138.00	2,68,686	150.00	2,92,050
7,000	98.00	13,328.00	210/	28,560	155.00	21,080	195.00	26,520	150.00	20,400	138.00	18,768	140.00	19,040
4,500	184/-	3,312	350.00	6,300	130.00	2,340	200.00	3,600	190.00	3,420	227.00	4,086	250.00	4,500
19,294	1.00	3,508	3.00	10,524	4.00	14,032	2.00	7,016	6.00	21,048	2.50	8,770	5.00	17,540
971-50	1.00	3,813	3.00	11,439	3.00	11,439	2.00	7,626	5.00	19,065	2.50	9,532	5.00	19,065
37,160	1200/	55,200	1770/	81,420	1300/	59,800	1260/	57,960	1300/	59,800	1300/	59,800	1400/	64,400
29,920	300/	24,310	1960/	36,652	1400/	26,180	1300/	24,310	1400/	26,180	1400	26,180	1525/	28,517.50

50.00	21,550	80.50	34,695.50	30.00	12,930/-	50.00	21,550/-	60.00	25,860/-	52.00	22,412/-	70.00	30,170,
330/-	73,390	644.00	1,29,444/-	325.00	65,325/-	200.00	40,200/-	500.00	1,00,500	500.00	1,00,500	460.00	92,460
	28,77,630.25		46,62,054.70		33,58,529/-		43,25,023145		42,38,533/-		40,08,388/-		41,32,597

Contd...

1	2	3	4	5	6	7	8	9	10
29.	431 Metres	Providing and placing porous concrete 0.50 M cubes with a central 20 cm dia. holes as per specifications including cost and conveyance of all materials, scaffolding, curing, dewatering and river flow diversion with all leads and lifts etc. complete.	31.50	One Running Metre	13,576/-	27.00	11,637/-	86/-	37,066
30.	201 ,,	Providing 16 SWG copper water seals at the contraction joints as directed, including fabricating and placing, forming holes, providing steam pipes and filling with asphalt as specified and cost and conveyance of all materials, scaffolding with leads and lifts etc. complete.	133.50	-do-	87,133-50	160.00	32,160/-	570/-	1,14,570
					39,56,605-70		35,97,820.50		36,25,136

1	2	3	4	5	6	7	8	9	10
31.	120 Metres.	Providing 16 S.W.G.Copper water sealing strips at contraction joints including fabricating and placing around the drainage gallery including cost and conveyance of all materials,scaffolding all plant and labour charges,all leads & lifts etc.,complete.	209.50 ~~200.00~~	One Running Metre.	25140 ~~27,240~~	160.00	19,200	222.00 ~~232.00~~	26,640
32.	2,359 Sq.Metres.	Providing cement plastering 2 cm thick in C.M.1:3 proportion on the face of uncoursed rubble masonry adjacent to contraction joints,including cost and conveyance of all materials,scaffolding,curing,dewatering and river flow diversion with all leads and lifts etc.,complete.	3.60	One Square Metre.	8,492.40	5.00	11,795	4.00	9,436
33.	752 Cubic Metre/ Kilometre.	Extra radial lead charges for conveyance of sand, aggtegate and rubble from quarries situated beyond the radial limits shown in the respective quarry maps.	0.31	One Cubic Metre/ Kilometre.	233.12	0.40	300.80	0.75	564
34.	1,198 Metric Tonnes.	Handling of puzzolona including its conveyance from departmental stock piles placing in the mixer and mixing it along with other ingredients of cement mortar and placing in the structure.	10.60	One Metric Tonne.	12698.8	32.00	38,336	10.00	11,980
					~~46,564.32~~		~~36,67,452.30~~		~~36,73,759.50~~
					~~40 03 170 02~~ 39,97,033		- 8.25%		- 8.99 %

Note:- Rates quoted above are through rates for finished items inclusive of all royalties,sales tax,octroi and local taxes wherever applicable and appropriate.

12	13	14	15	16	17	18	19	20	21	22	23	24
129.00	15,480	294.00	35,280	325.00	39,000	400.00	48,000	250.00	30,000	250.00	30,000	220.00	26,400
5.00	11,795	5.30	12,502.70	4.25	10,025.75	5.00	11,795	5.00	11,795	6.00	14,154	6.00	14,154
1.75	1,316	0.70	526.4	1.00	752	2.00	1,504	1.00	752	0.40	300.80	2.00	1,504
4.00	4,792	21.00	25,158	25.00	29,950	80.00	95,840	15.00	17,970	18.00	21,564	15.00	17,970
	39,11,013.35		46,36,422.80		40,38,257.75		44,82,167.45		43,49,059		40,74,407.80		41,92,625
	− 2.15 %		+ 15.97 %		+ 1.03 %		+ 12.11 %		+ 8.81 %		+ 1.94 %		+ 4.89 %

PROCEEDINGS OF THE 33RD MEETING OF THE MAJOR IRRIGATION PROJECTS CONTROL BOARD HELD ON 18-12-1969 AT 4-30 P.M. IN THE CHAMBERS OF THE CHIEF MINISTER, GOVERNMENT OF MYSORE, BANGALORE.

MEMBERS PRESENT:

SHRIYUTHS:

1) Veerendra Patil, Chief Minister, Government of Mysore, Bangalore. -- CHAIRMAN.

2) D. Parameswarappa, Deputy Minister for Major Irrigation and Electricity. -- VICE-CHAIRMAN.

3) Iftekhar Ahmed, Additional Secretary to Govt., P.W. & E. Dept., Bangalore. -- MEMBER.

4) Mani Narayanaswamy, Secretary to Govt., Finance Dept., Bangalore. -- -do-

5) K. Basanna, Chief Engineer, Irrigation Projects (South), Bangalore. -- -do-

6) S.G. Balekundry, Chief Engineer, Irrigation Projects (North), Dharwar. -- -do-

7) M.V. Aswathanarayana Setty, Chief Engineer, Investigation of Hydro Electric and Irrigation Projects, Bangalore. -- -do-

8) N.G. Gorepeerzade, Deputy Secretary to Govt., representing D.H.P.C. Dept., Bangalore. -- -do-

9) M. Channappa, Deputy Secretary to Govt., P.W.D. (Irrigation). -- SECRETARY.

MEMBERS ABSENT:

1) Dr. Arakeri, Director of Agriculture in Mysore, Bangalore. -- MEMBER.

2) Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation and Power, Bangalore. -- -do-

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SUBJECT NO.1:- CONFIRMATION OF THE PROCEEDINGS OF THE 32ND MEETING OF THE M.I.P.C. BOARD HELD ON 9-12-1969.

" C O N F I R M E D ".

SUBJECT NO.2:- Consideration OF TERMINATION OR OTHERWISE OF THE CONTRACT OF -

(a) Shri Mariswamappa, for the work of Hemavathy Right Bank Earth Dam from Ch.5720' to 7890'.

(Contd....2)

CH 8/1/70

PWD (Gl. Irrgn). No 11 Date 8/1/70

(b) Shri V.C. Khanna, for the work of Hemavathy Left Bank Earth Dam from Ch. 2920' to Ch. 5020'.

The M.I.P.C. Board during its Meeting held on 9-12-1969 had directed the Technical Sub-Committee of the M.I.P.C. Board to - meet again and to conduct negotiations with the Contractors - M/s Mariswamappa and Company, and M/s V.C. Khanna and Company, and place their recommendations before the M.I.P.C. Board for further consideration.

In pursuance of the above, the Technical Sub-Committee met on 18-12-1969, but could not conduct any negotiations, since the contractors nor the representatives of the contractors were present at the meeting held on 18-12-1969 even though they had been - informed by the Chief Engineer to that effect. In view of the above, the Technical Sub-Committee desired that the M.I.P.C.Board may consider this matter and take appropriate action.

The Board noted that the works have come to a stand still and it is in public interest to resume them forthwith. On the other hand, there have been persistent representations from both these contractors to consider their cases on grounds of equity and justice. The Board also noted that the period of validity of Bank Guarantee given by these contractors has already expired and a further reconsideration of their cases can be made by going through them in greater detail only if there is an assurance that the amounts covered by the Bank Guarantees are available to Govt. in case the decision is against the contractors.

In view of the above, the following recommendations are made to Government:-

(Contd...3)

(1) The Chief Engineer should record final measurements of the works of both these contractors done so far and make immediate arrangements to take up the balance works departmentally.

(2) The contractors may be requested to intimate if they will increase the validity of their Bank Guarantees for atleast a year beyond the date of expiry of previous guarantees so that their various representations may be gone through in greater detail. If they are not prepared to extend the period of validity action should be taken immediately to request the respective banks to deposit the money with the department forthwith.

SUBJECT NO.3:- CONSIDERATION OF THE TENDERS OF ALMATTI RESERVOIR IN RESPECT OF CONSTRUCTION OF ALMATTI DAM STAGE-I.

The Board considered the recommendations of the Technical Sub-Committee of Irrigation North Zone held on 18-12-1969 in respect of the tenders of Almatti Dam and desired that the Chief Engineer may conduct further negotiations offering the following conditions to all the Contractors:-

(1) 2½% E.M.D. may be given in the form of Bank - Guarantee to any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the validity to expire two years after the scheduled date of completion of the works;

(2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills, out of which ½% may be converted into a Bank - Guarantee or Security Bonds (acceptable to Government) the validity of which to expire one year after the scheduled date of completion of the works.

(3) All other conditions putforth in the tender to be withdrawn except such conditions which in the opinion of Government are not of a substantial character.

The result of negotiations conducted with all the contractors by offering the above ~~two~~ three conditions should be reported to Govt.

(Contd...4)

by the Chief Engineer immediately.

In case favourable offers are not received in the negotiations conducted by the Chief Engineer, fresh tenders may have to be called for by the Chief Engineer by offering the following conditions in the tender notice itself:-

(1) 2½% E.M.D. may be given in the form of Bank Guarantee from any one of the Scheduled Banks or Security Bonds (acceptable to Government) with the validity to expire one year after the date of completion of the works.

(2) Further Security Deposit may be limited to 2½% to be deducted from the R.A. Bills out of which, ½% may be converted into a Bank Guarantee or Security Bonds (acceptable to Government) the validity of which to expire one year after the date of completion of the works.

(3) Payment of total Cash Advance of Rs. 10 lakhs (distributed in proportion to cost of each reach) against Bank Guarantee or Security Bonds acceptable to Government with interest at 6% per annum which should be recovered in the running bills of the contractors as follows:-

(a) For the first 10 months after the commencement of the work no recovery.

(b) Beyond 10 months the recovery is to be effected at the rate of about 3% of the Cash Advance plus accrued interest thereon in the running bills of the contractors subject to the entire amount being recovered one year earlier than the agreed period for the completion of the work.

(4) 15 lakhs total Cash Advance with interest at 6% per annum be made against the hypothecation of the machinery - 90% of the value of new machinery and 75% of the value of the old machinery brought to site for all the three reaches in proportion to cost of each reach. The Advance will be recoverable is as follows:-

(a) For the first 10 months no recovery.

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(Contd.....5)

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(Contd.....5)

contractors, subject to the entire amount being recovered one year earlier than the agreed period for the completion of the work.

(5) The rates quoted for excavation should be exclusive of dewatering of foundations which shall be paid for separately at Rs.0-80 (Eighty Paise - only) per horse power/per hour of pumping - subject to the ceiling of Rs.3.50 lakhs as distributed below:-

Reach I	--	Rs. 66,600/-
Reach II	--	Rs. 2,78,000/-
Reach III	--	Rs. 5,400/-
Total:		Rs. 3,50,000/-

(6) For the Quantity of Masonry constructed using Rubble from the excavation the accepted tender rates will be reduced by Rs.0.50 (Fifty Paise - only) per cubic metre of masonry.

M Channappa 31/12/69.

(M. Channappa)
Deputy Secretary to Govt., P.W.D. (Irrigation)
& Ex-Officio Secretary, M.I.P.C. Board.

(No.PWD 81 LLM 69)

cn/

PROCEEDINGS OF THE 33RD MEETING OF THE MAJOR IRRIGATION PROJECTS CONTROL BOARD HELD ON 18-12-1969 AT 4-30 P.M. IN THE CHAMBERS OF THE CHIEF MINISTER, GOVERNMENT OF MYSORE, BANGALORE.

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2) D. Parameswarappa, Deputy Minister for Major Irrigation and Electricity. — VICE-CHAIRMAN.

3) Iftekhar Ahmed, Additional Secretary to Govt., P.W. & E. Dept., Bangalore. — MEMBER.

4) Mani Narayanaswamy, Secretary to Govt., Finance Dept., Bangalore. — -do-

5) K. Basanna, Chief Engineer, Irrigation Projects (South), Bangalore. — -do-

6) S.G. Balekundry, Chief Engineer, Irrigation Projects (North), Dharwar. — -do-

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MEMBERS ABSENT:

1) Dr. Arakeri, Director of Agriculture in Mysore, Bangalore. — MEMBER.

2) Prof. N.S. Govinda Rao, Adviser, Central Board of Irrigation and Power, Bangalore. — -do-

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" C O N F I R M E D ".

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